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AD-A203 961



# UPPER-WIND CLIMATOLOGY

FOR

CONUS

by

MSgt Susan Reyes-Sauter

NOVEMBER 1988



21 FEB 1989

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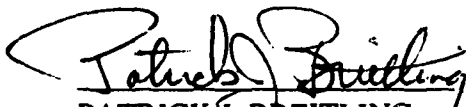
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USAF  
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APPLICATIONS CENTER

Scott Air Force Base, Illinois, 62225-5438


## REVIEW AND APPROVAL STATEMENT

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Chief Scientist

FOR THE COMMANDER



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Scientific and Technical Information  
Program Manager

## REPORT DOCUMENTATION PAGE

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- 22b. Telephone: 618 256-3543 A576-3543      22c. Office Symbol: USAFETAC/ECS

## PREFACE

This report documents work done on Project Number 805-22 for the Centralized Army Aviation Scheduling Office (CAASO) through Det 2, 5WS, Ft Belvoir, VA. It consists of 12 sets (one for each month) of CONUS maps with upper wind speed/direction plots at every 5 degrees of latitude and longitude. Winds are plotted at nine levels, starting at 5,000 feet MSL and ending at 45,000 feet MSL.\* Standard wind barbs are used, with speeds in knots. The database used was the Air Force Global Weather Central's SADS (Summarized Analysis Data Set), with period of record 1977-1982.

The program used was USAFETAC's ECSDSPA, written by Airman Scott Pfender and quality-controlled by MSgt Susan Reyes-Sauter. ECSDSPA is a cataloged USAFETAC program that interpolates SADS data. The hard copy computer printouts that provided the data for each point plotted are on file with USAFETAC/LDE.

Maps were plotted by MSgt Reyes-Sauter, TSgt Michael Kinney, SSgt Heidi Tryon, and SSgt Jerry Farley. Maps were quality-controlled by TSgt Kinney and SSgt Farley.

\*The original data was in feet AGL; it was converted to MSL using the following table, in which row values are degrees of north latitude and columnar values are degrees of west longitude.

<u>50° north</u>	<u>45° north</u>	<u>40° north</u>	<u>35° north</u>
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120 = 2,000	120 = 3,000	120 = 4,500	120 = 1,500
115 = 4,000	115 = 7,500	115 = 6,000	115 = 2,500
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HEIGHT 5000 FT MSL

DATE JAN

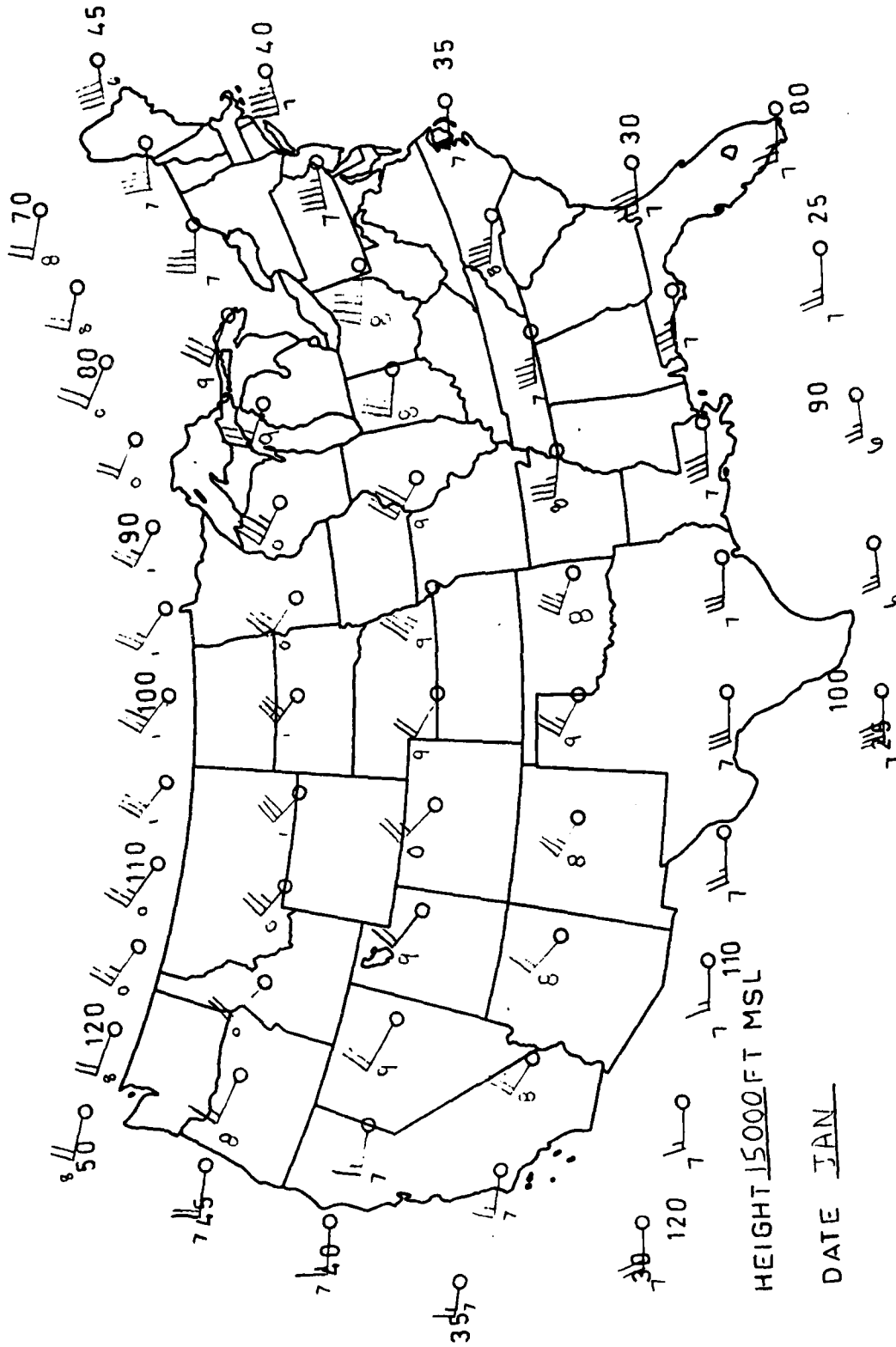
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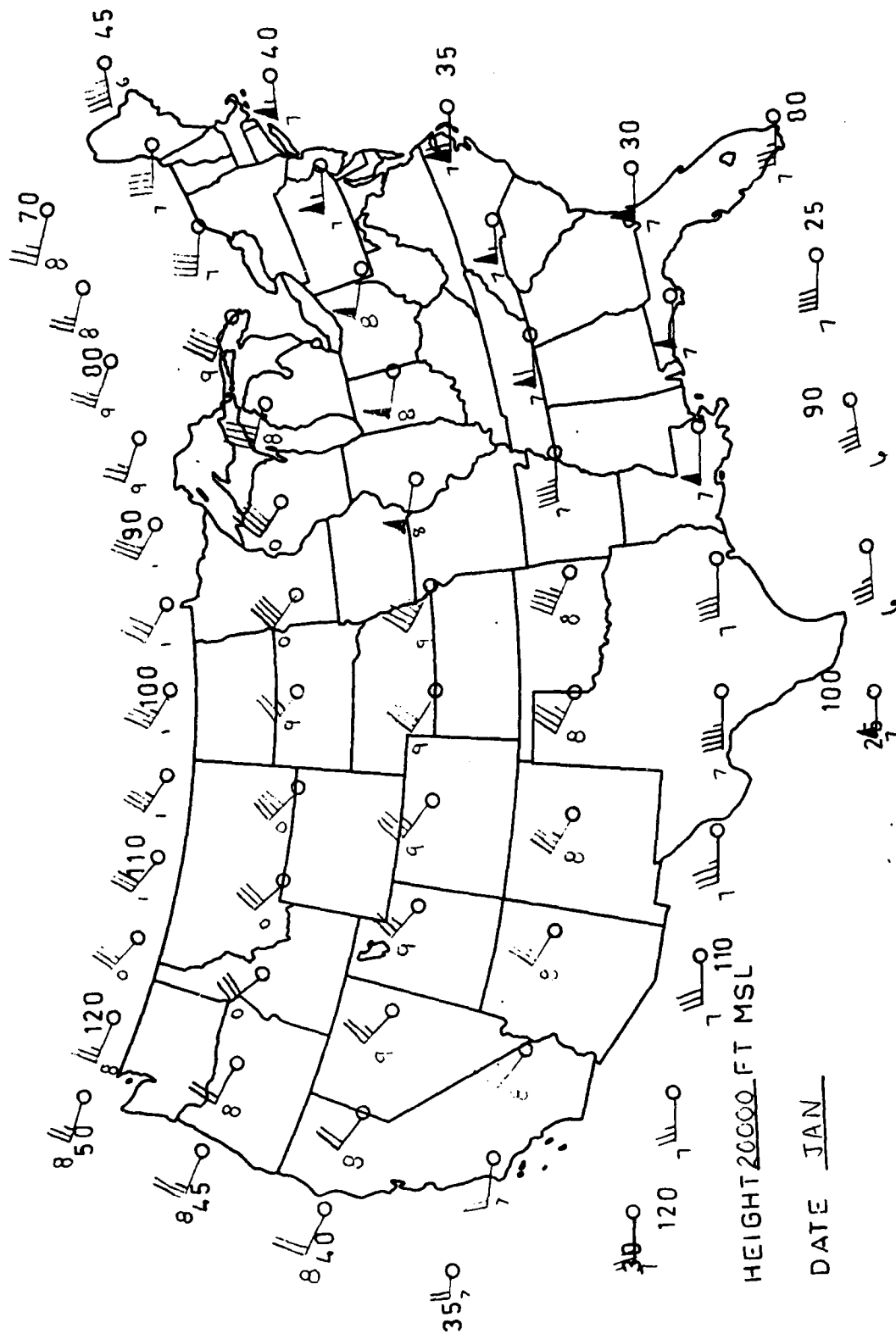
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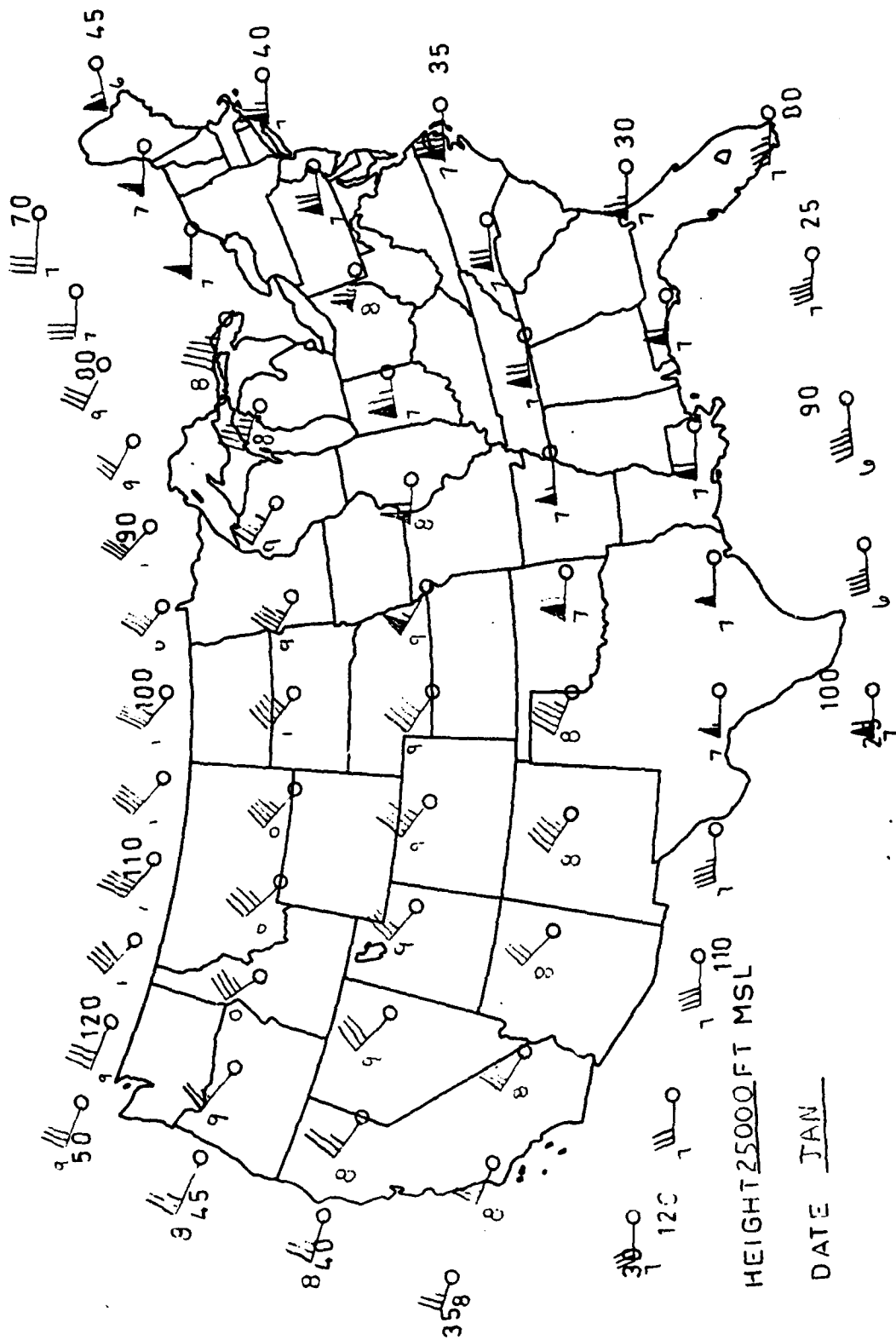




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**JANUARY, 25,000 FEET MSL**



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DATE TAN



HEIGHT 3500 FT MSL

DATE JAN

HEIGHT 3500 FT MSL

DATE JAN

HEIGHT 40000 FT MSL

DATE JAN

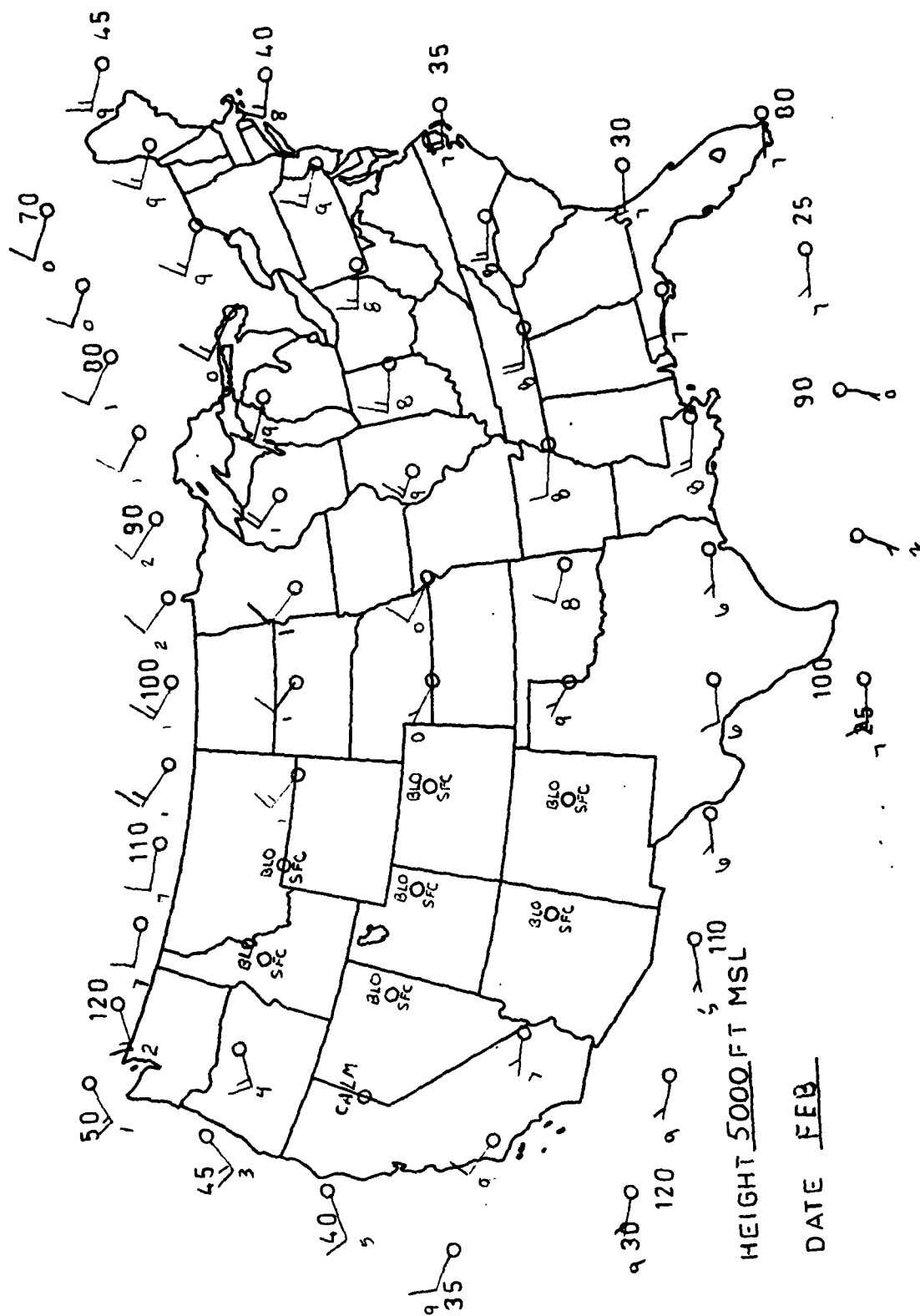
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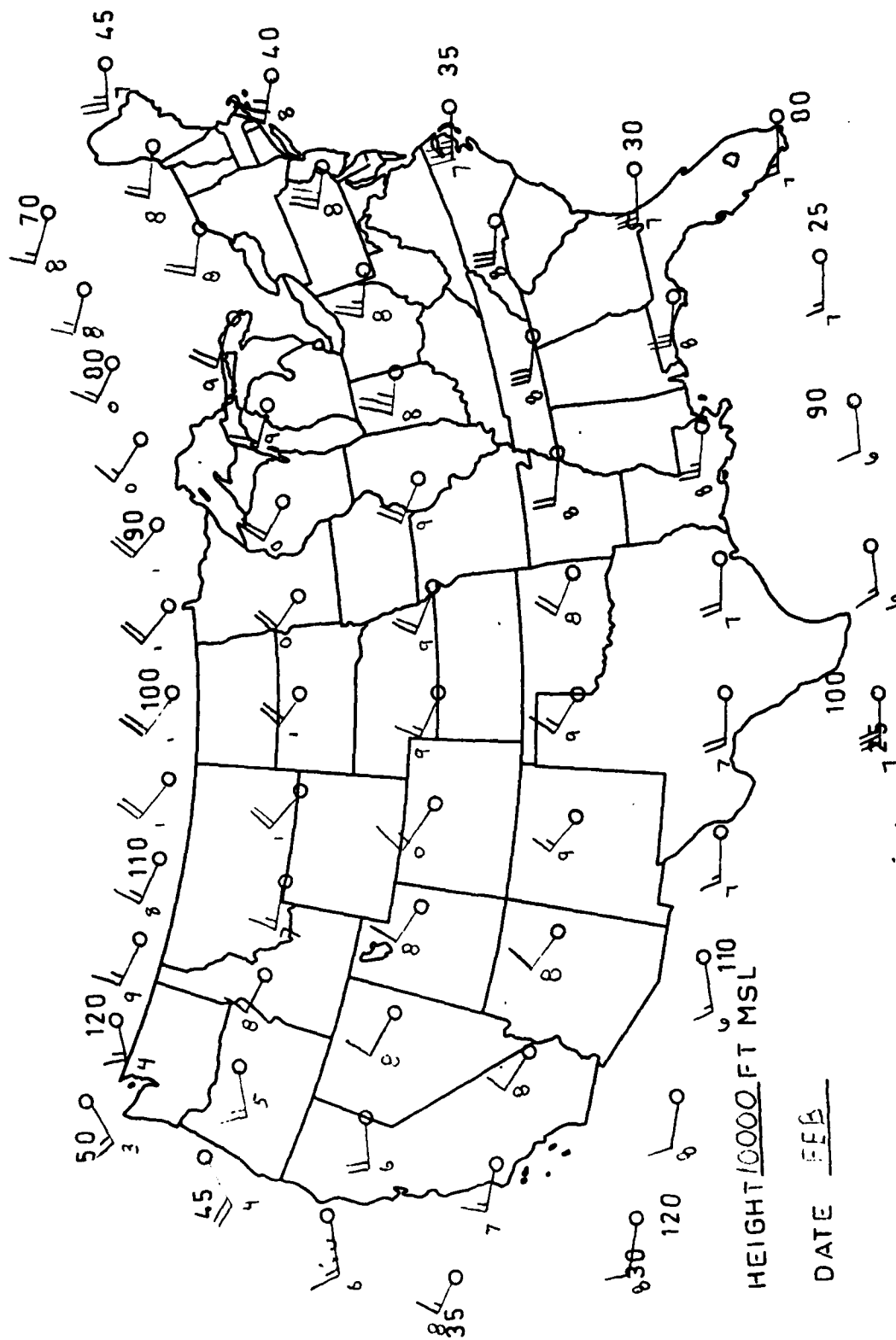
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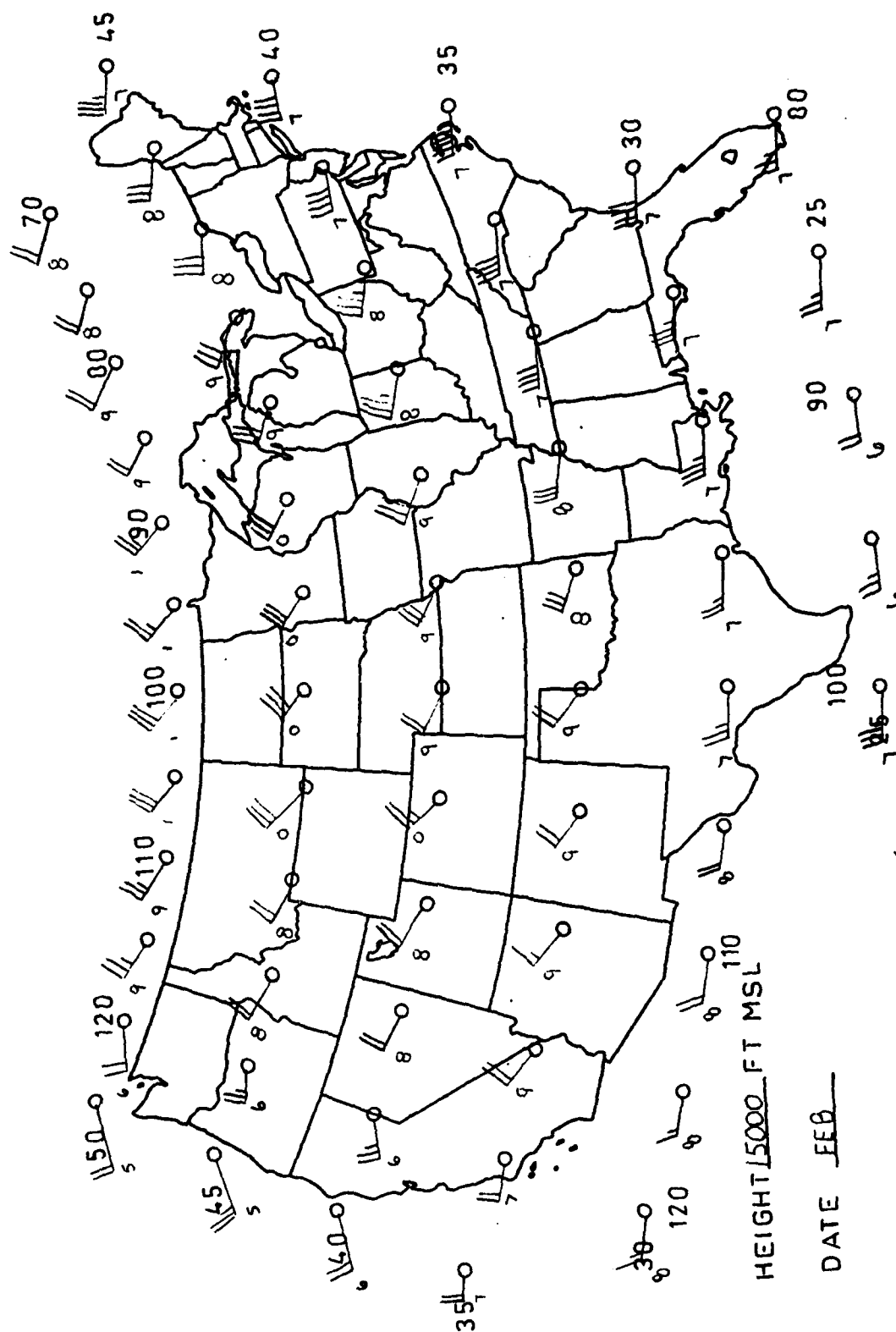


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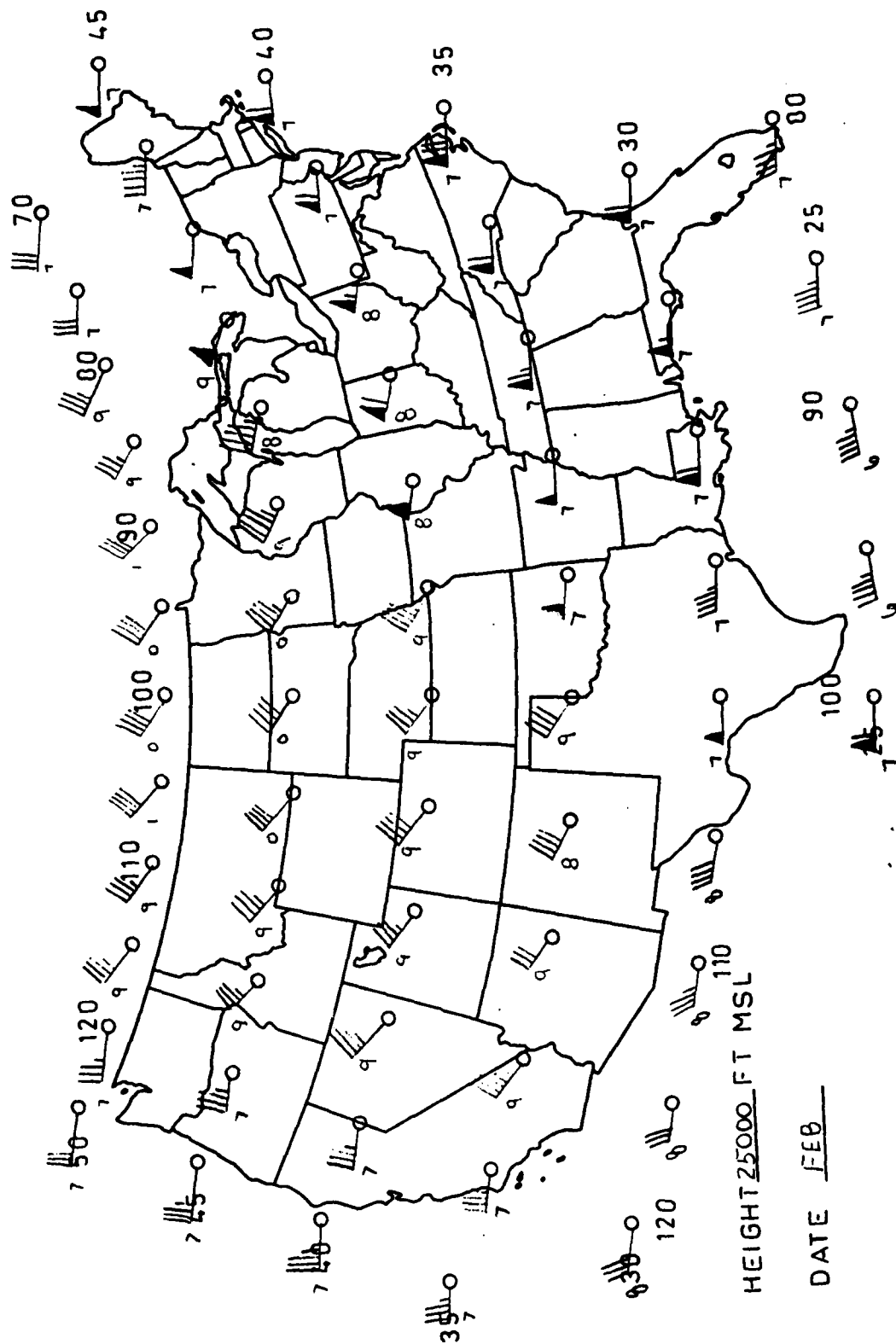
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DATE FEB

HEIGHT 2000 FT MSL

DATE FEB

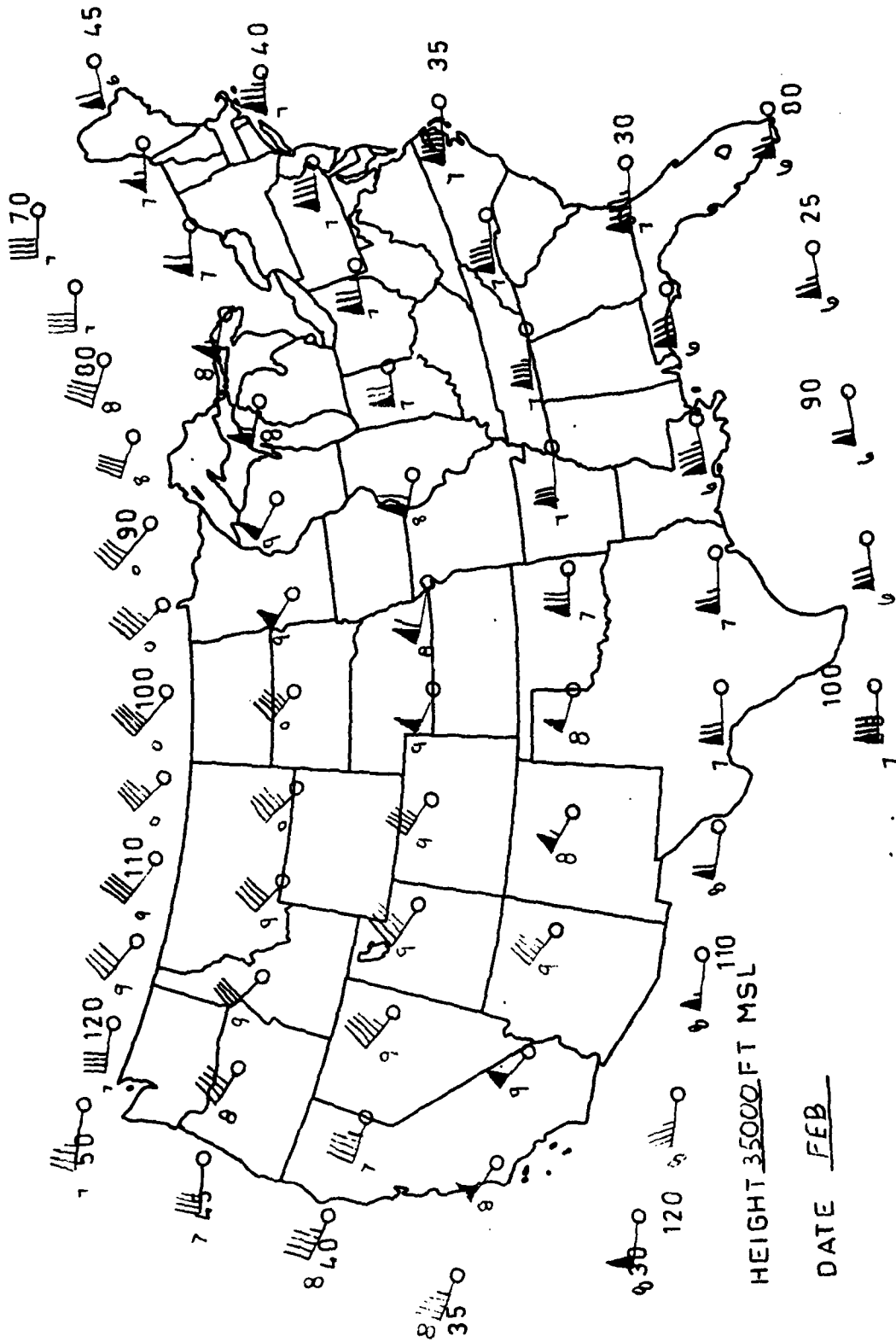
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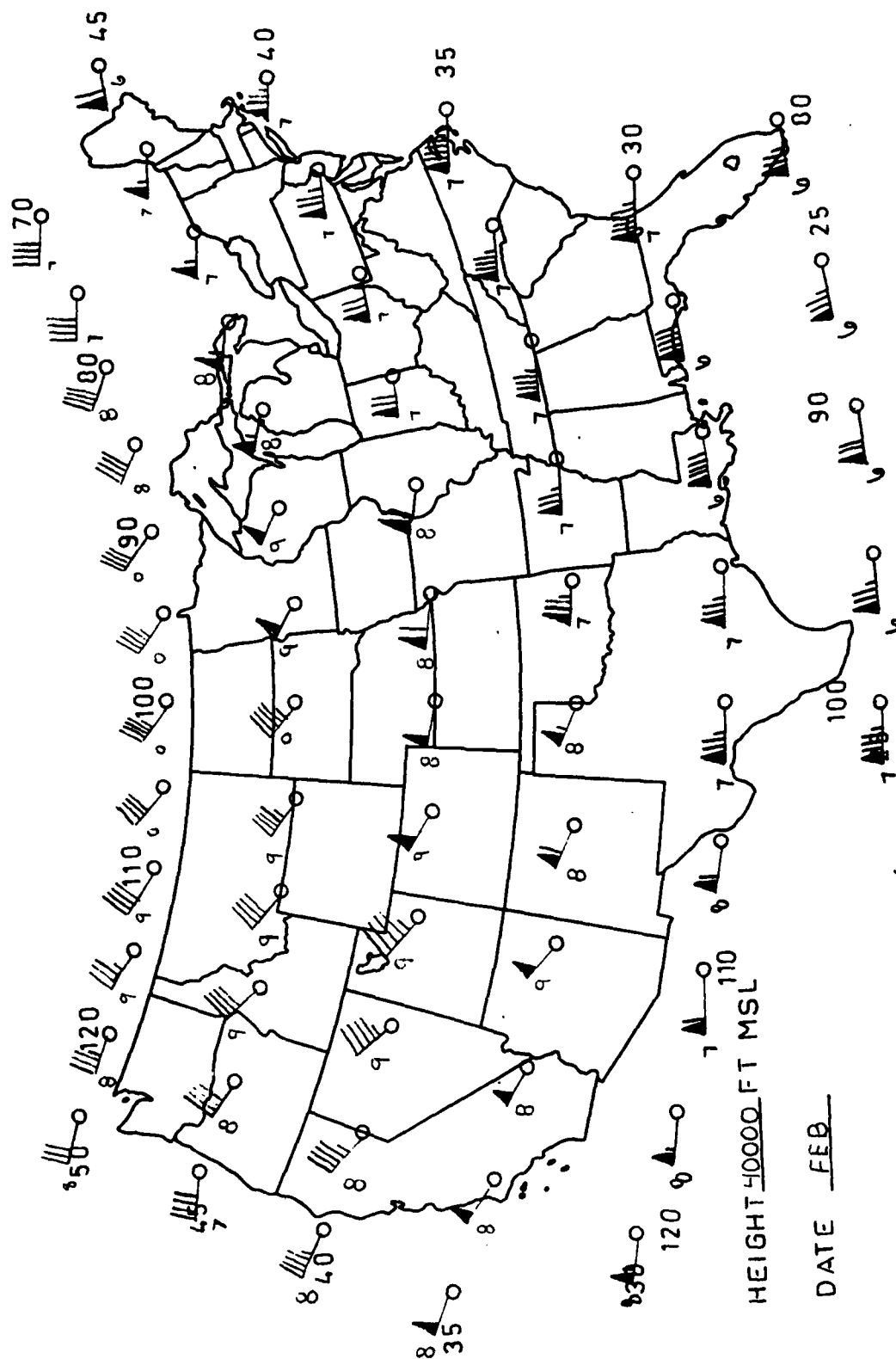
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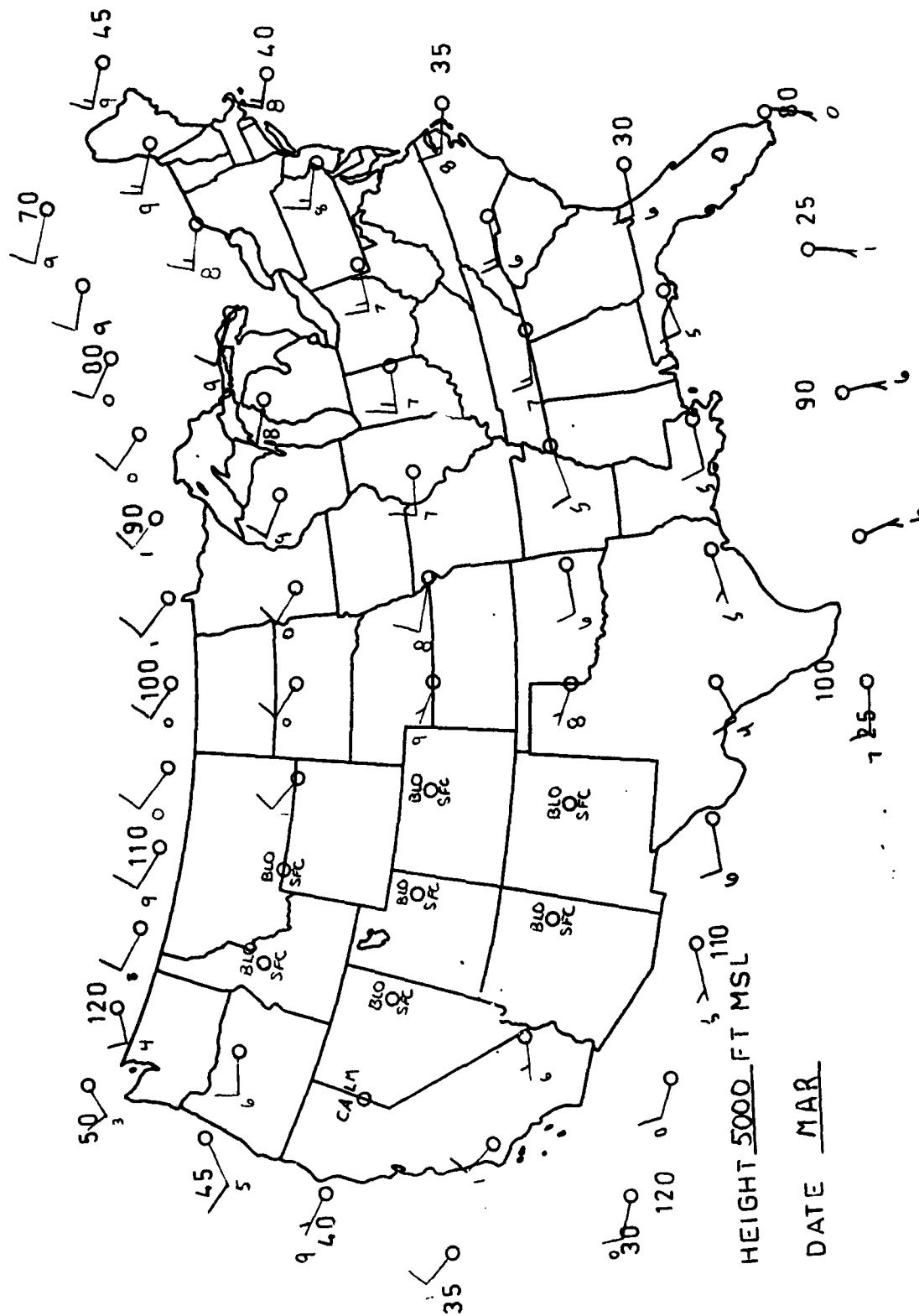
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DATE FEB

MARCH, 5,000 FEET MSL



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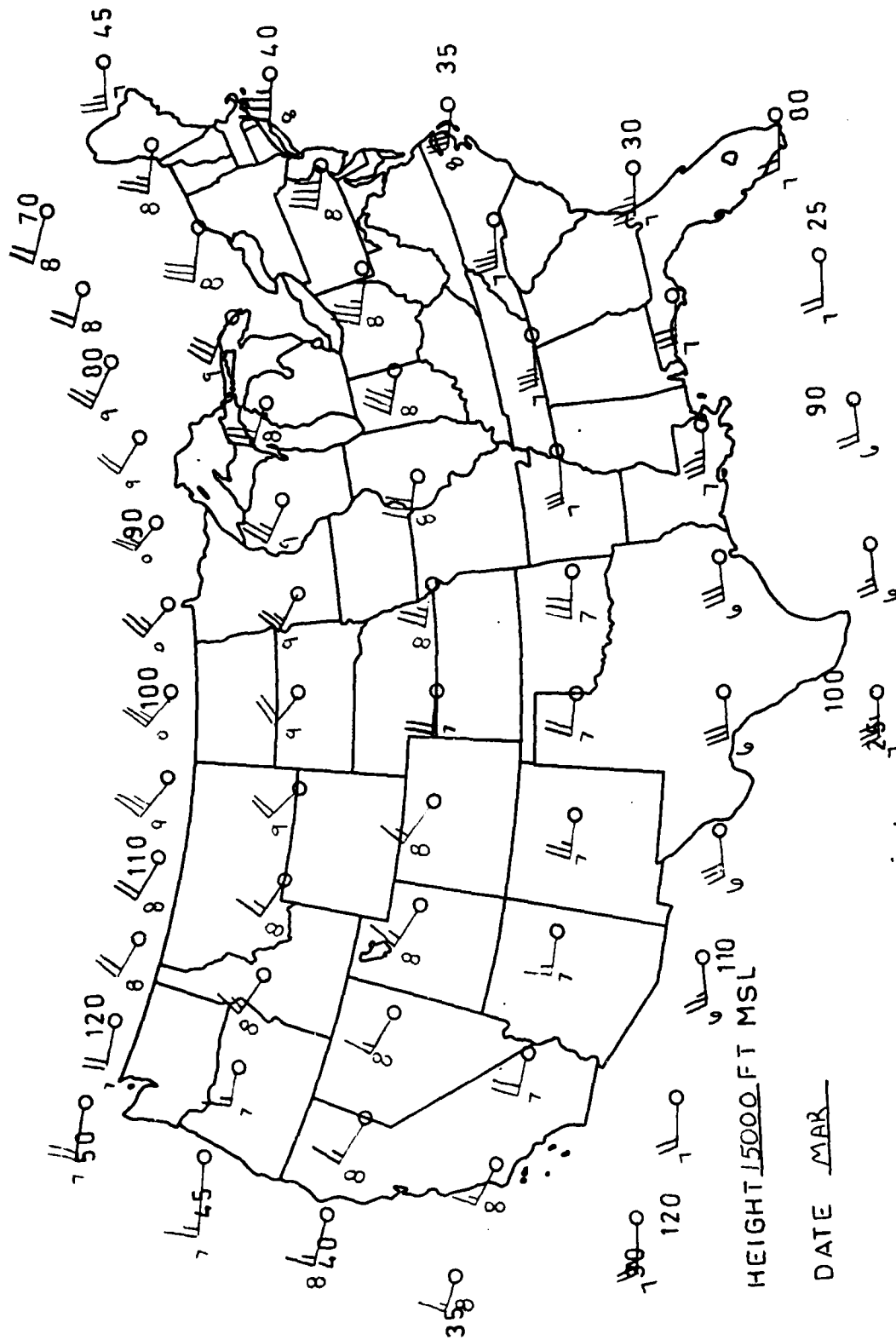
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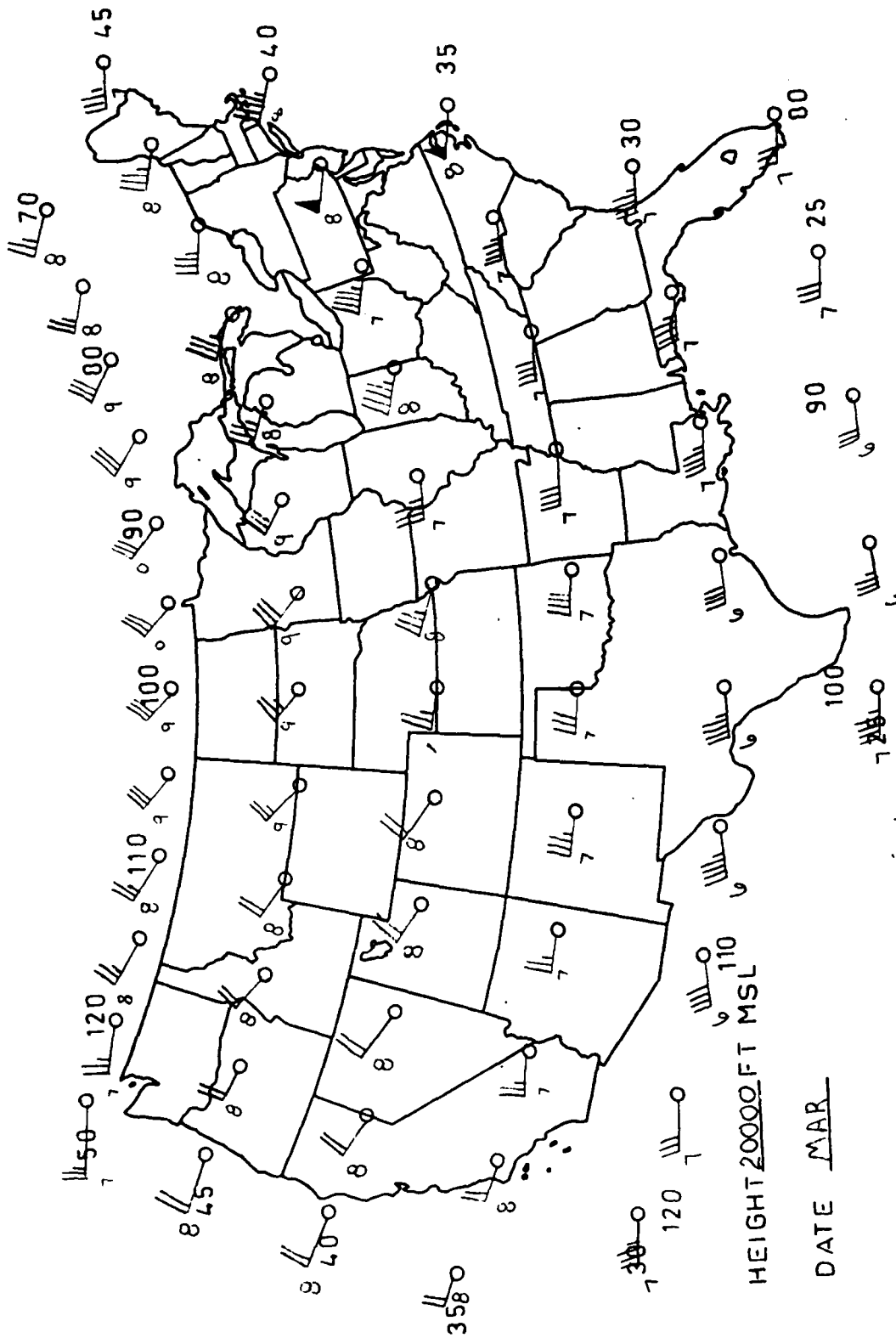
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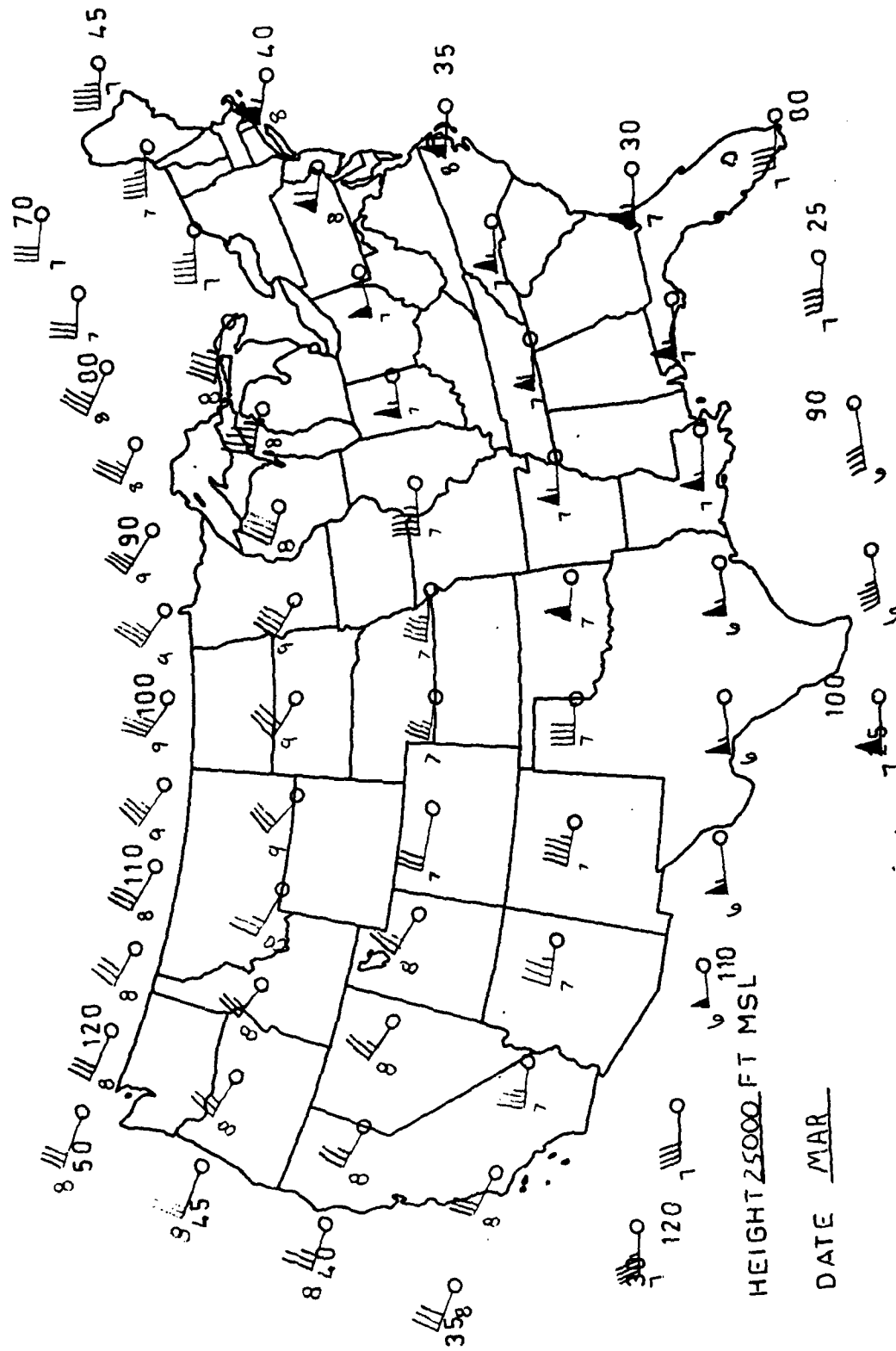
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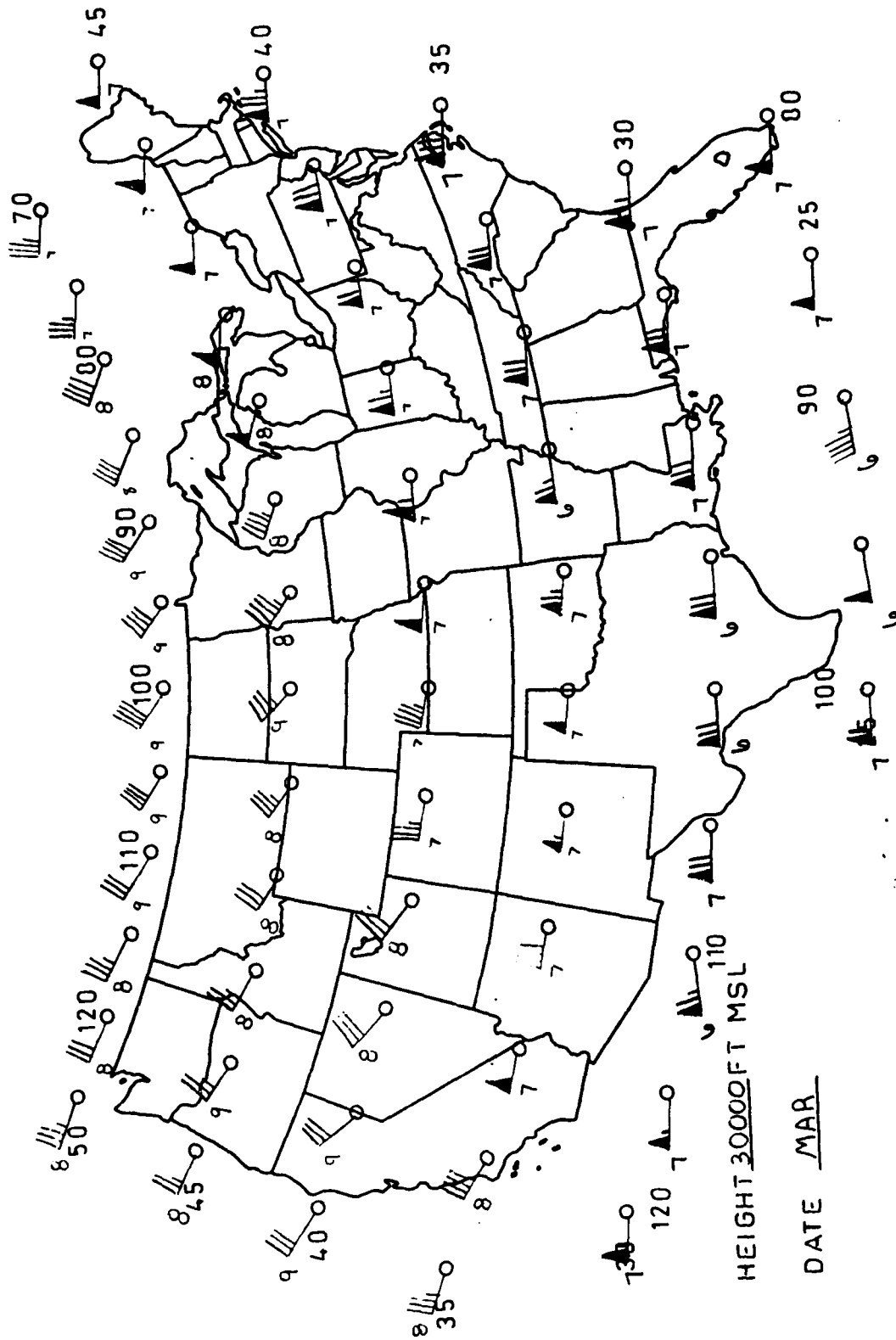
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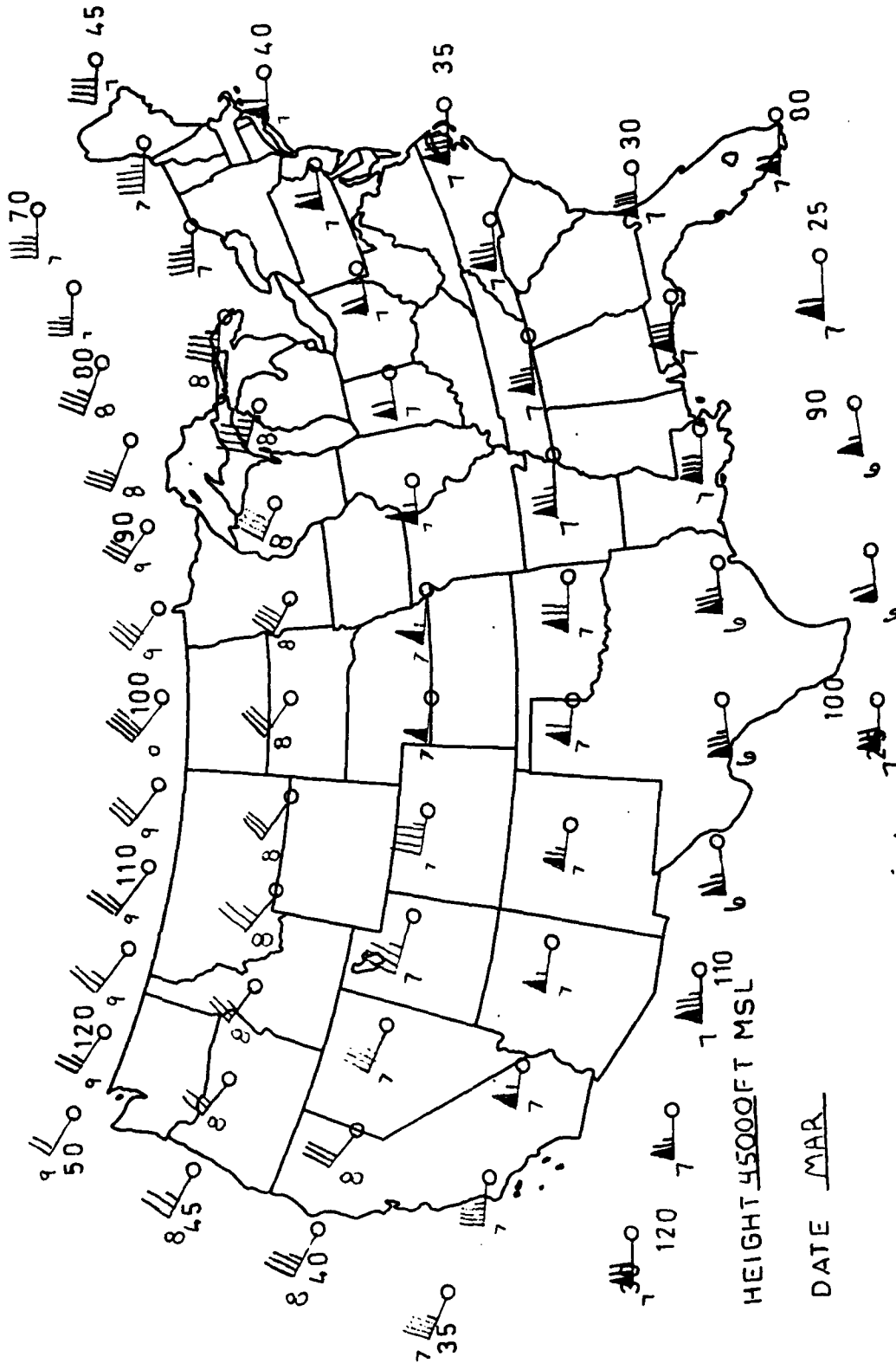
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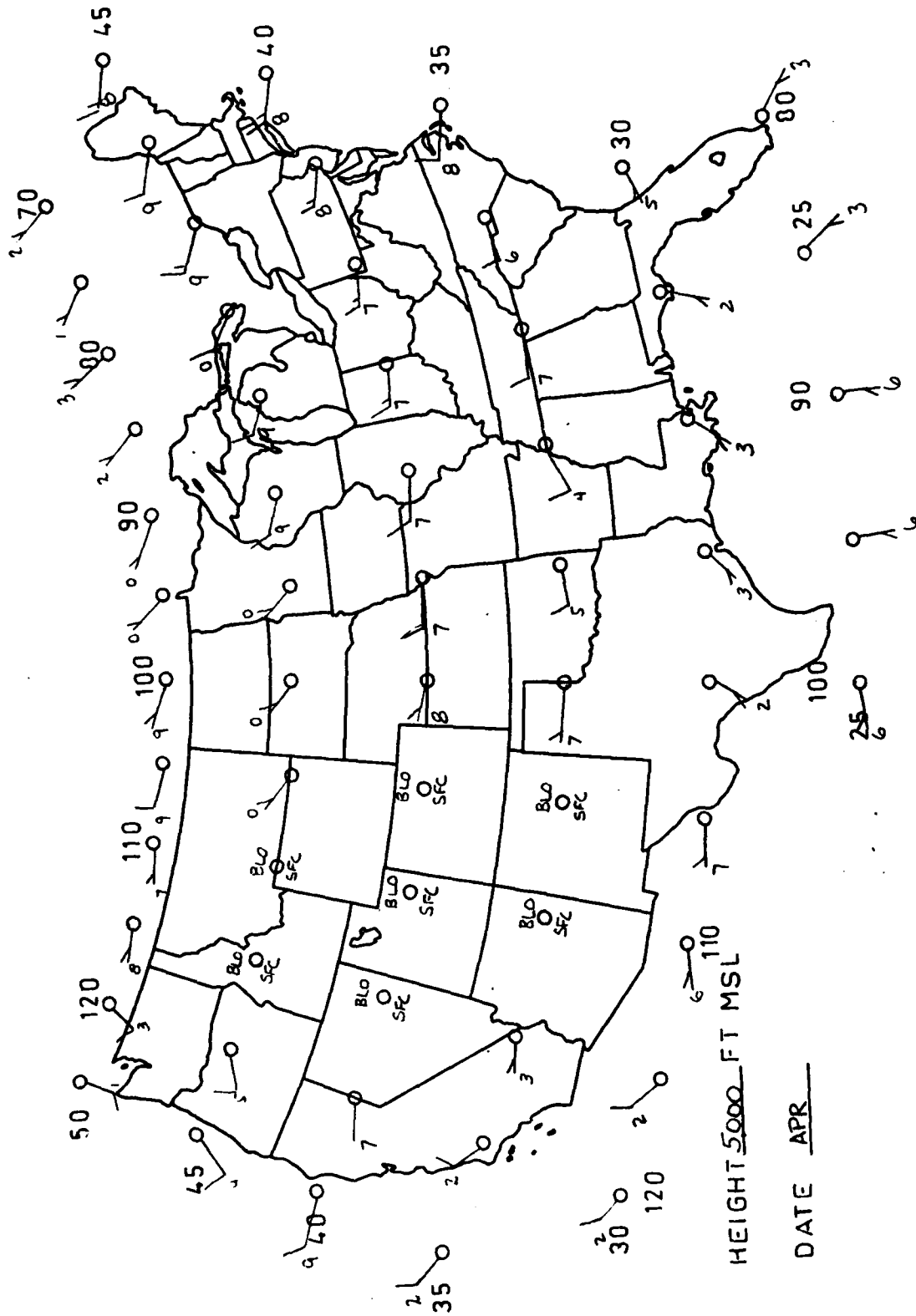
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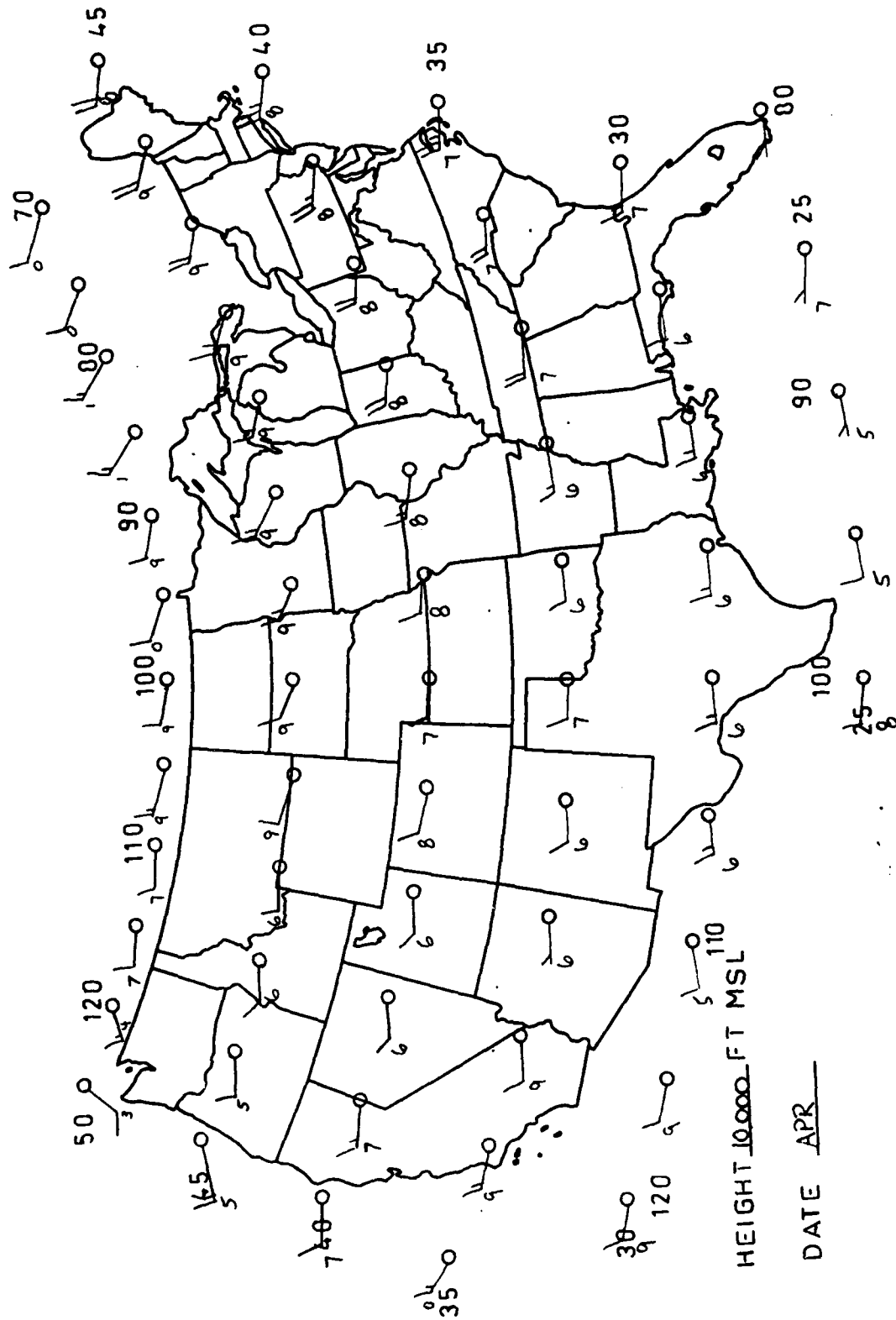
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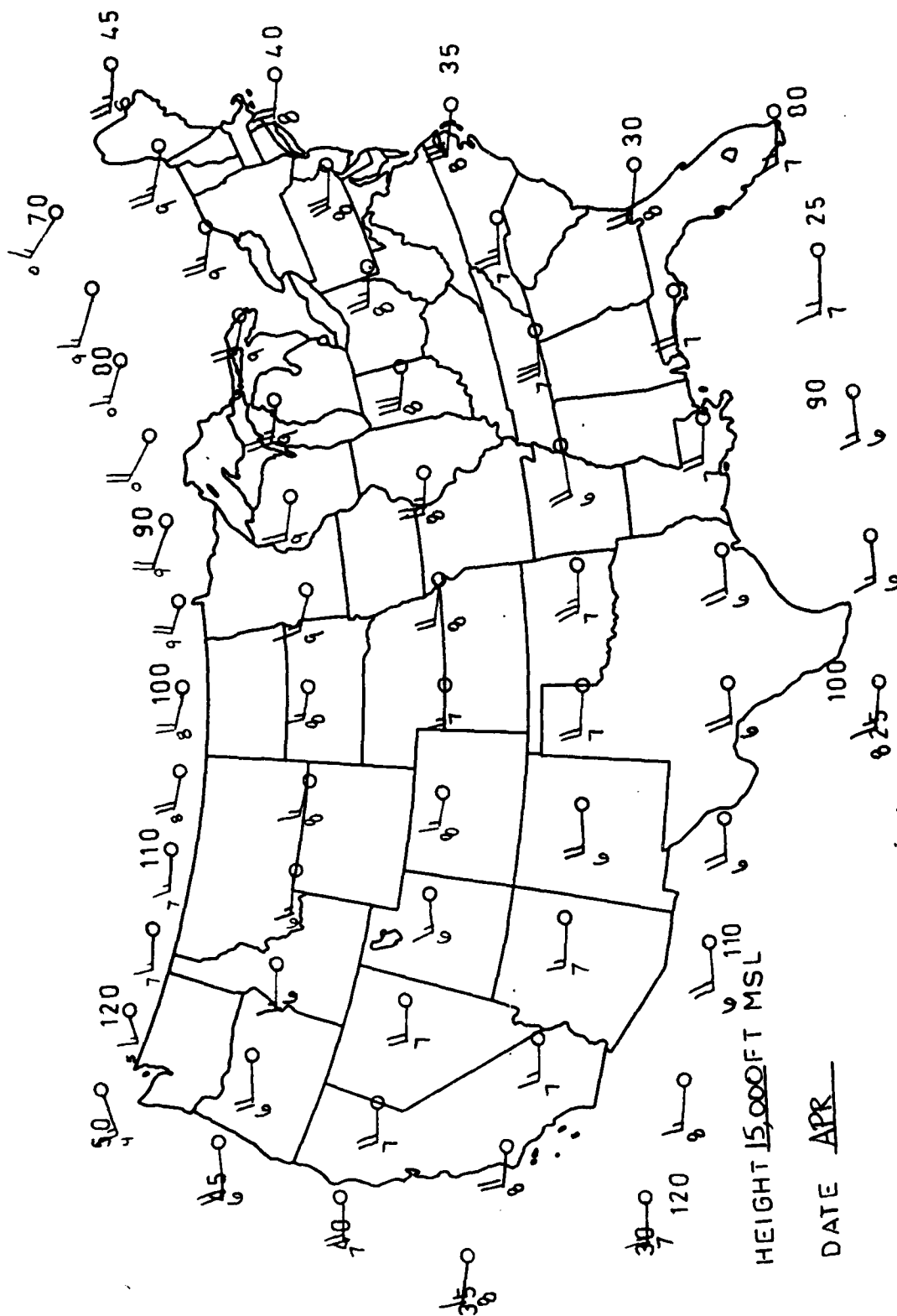
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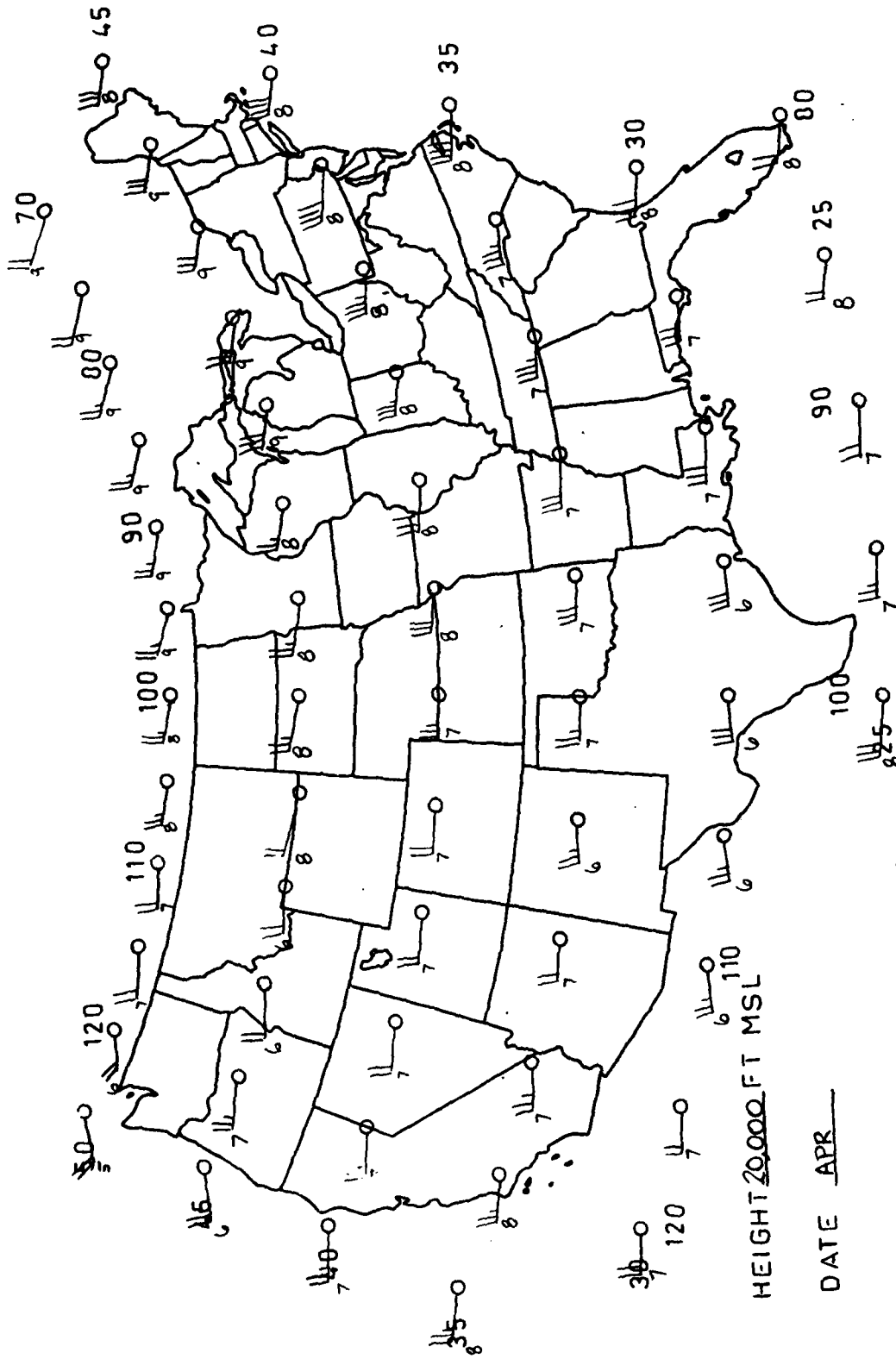
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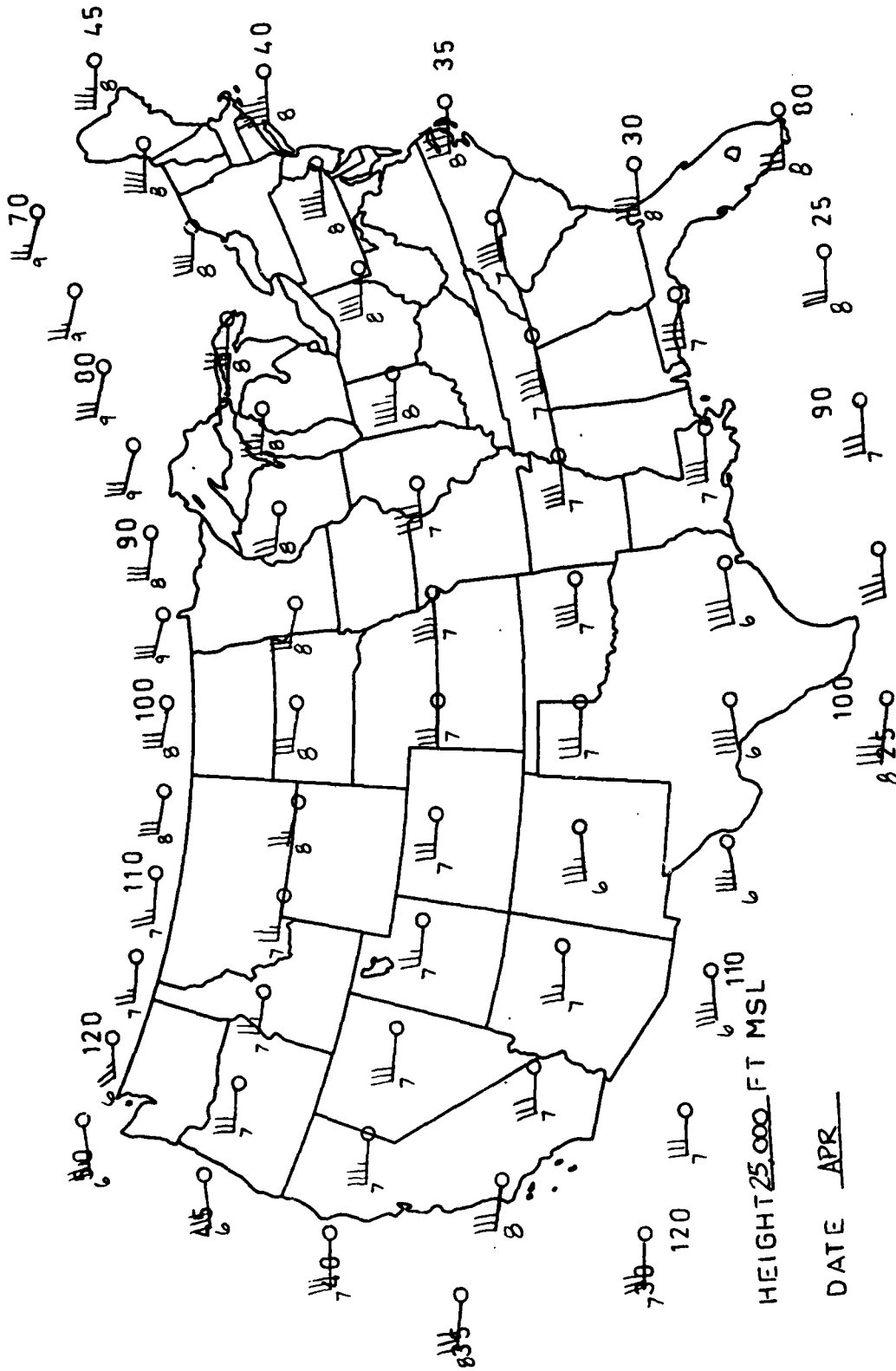
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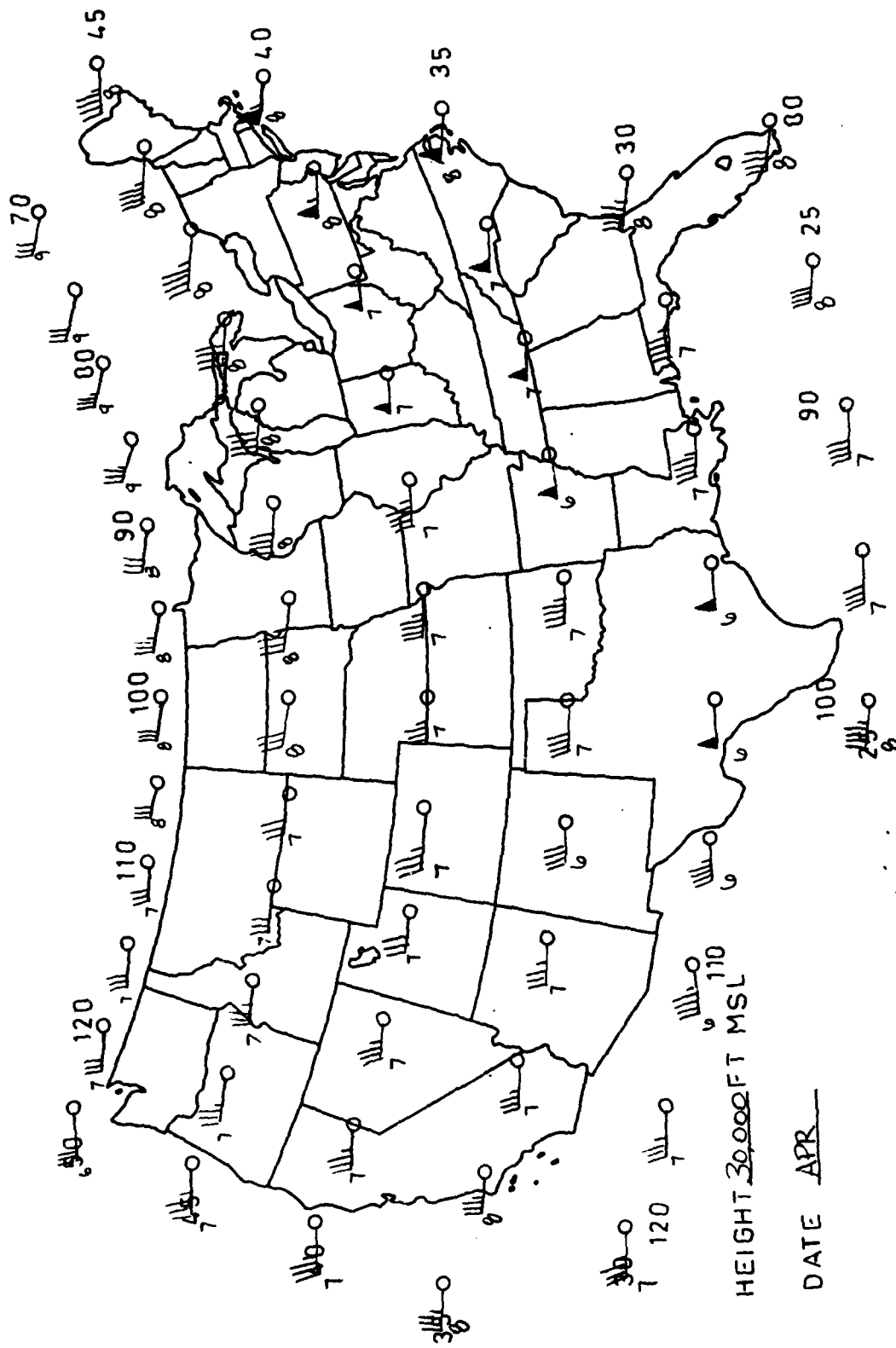
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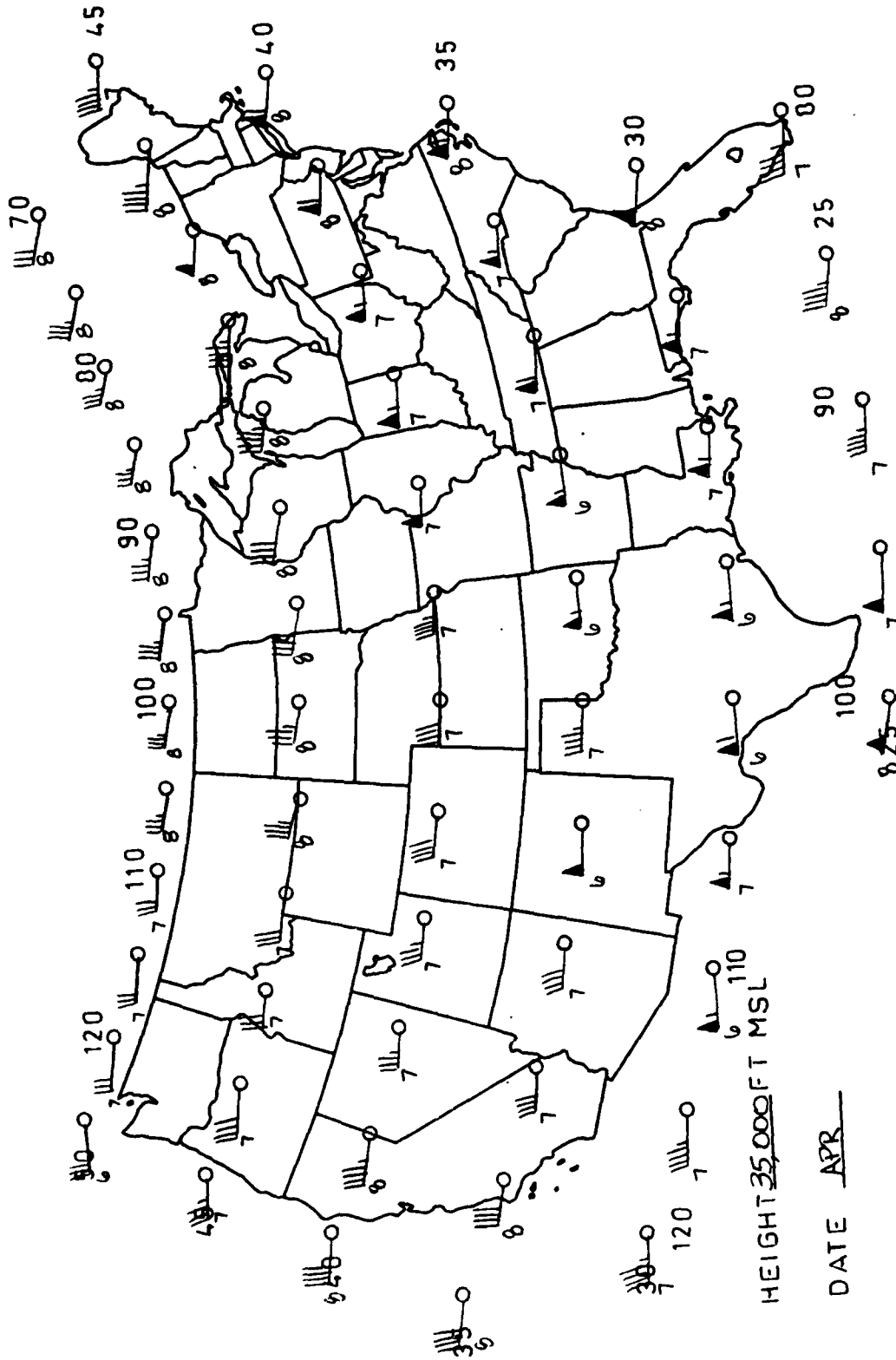
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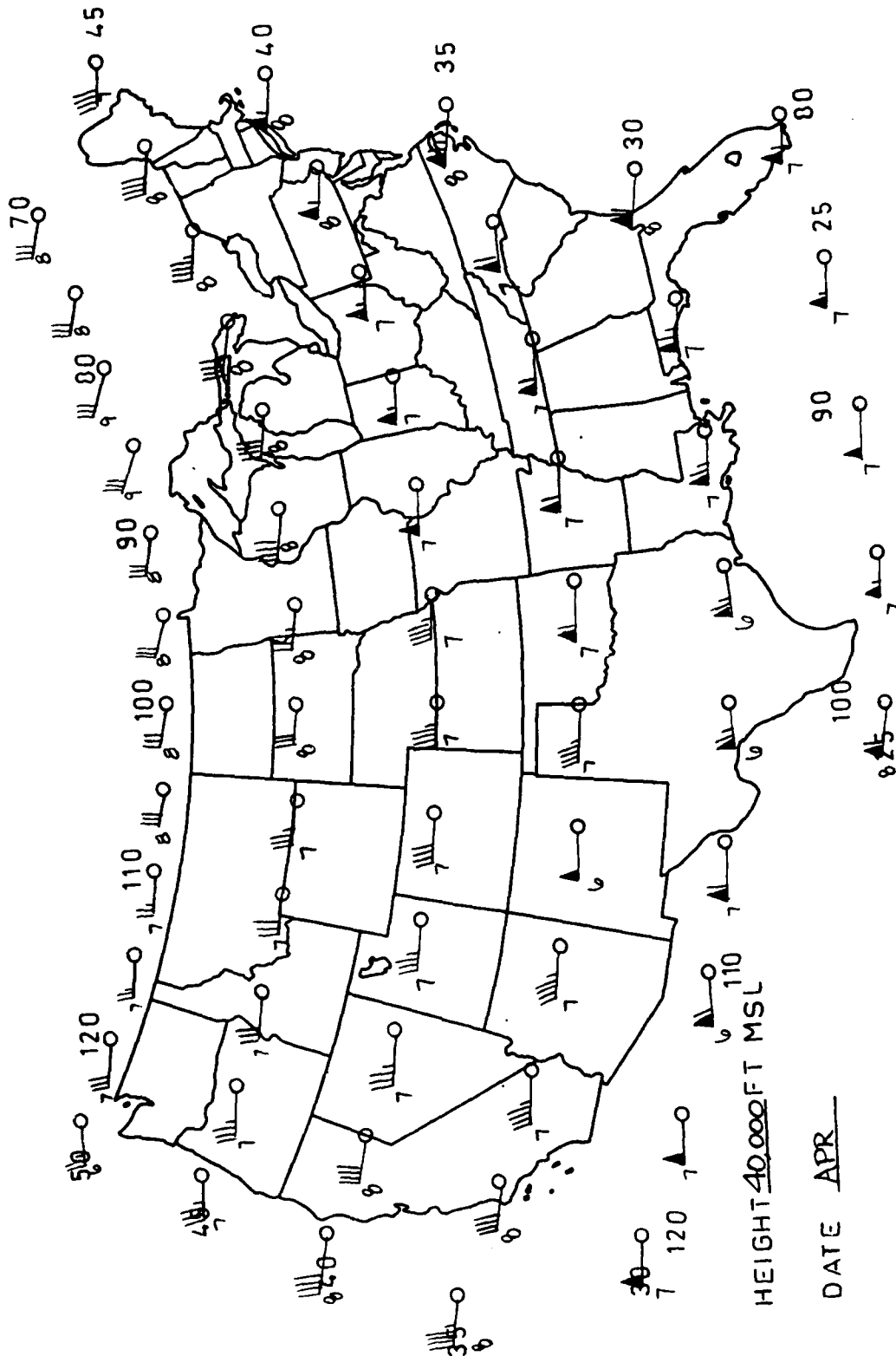
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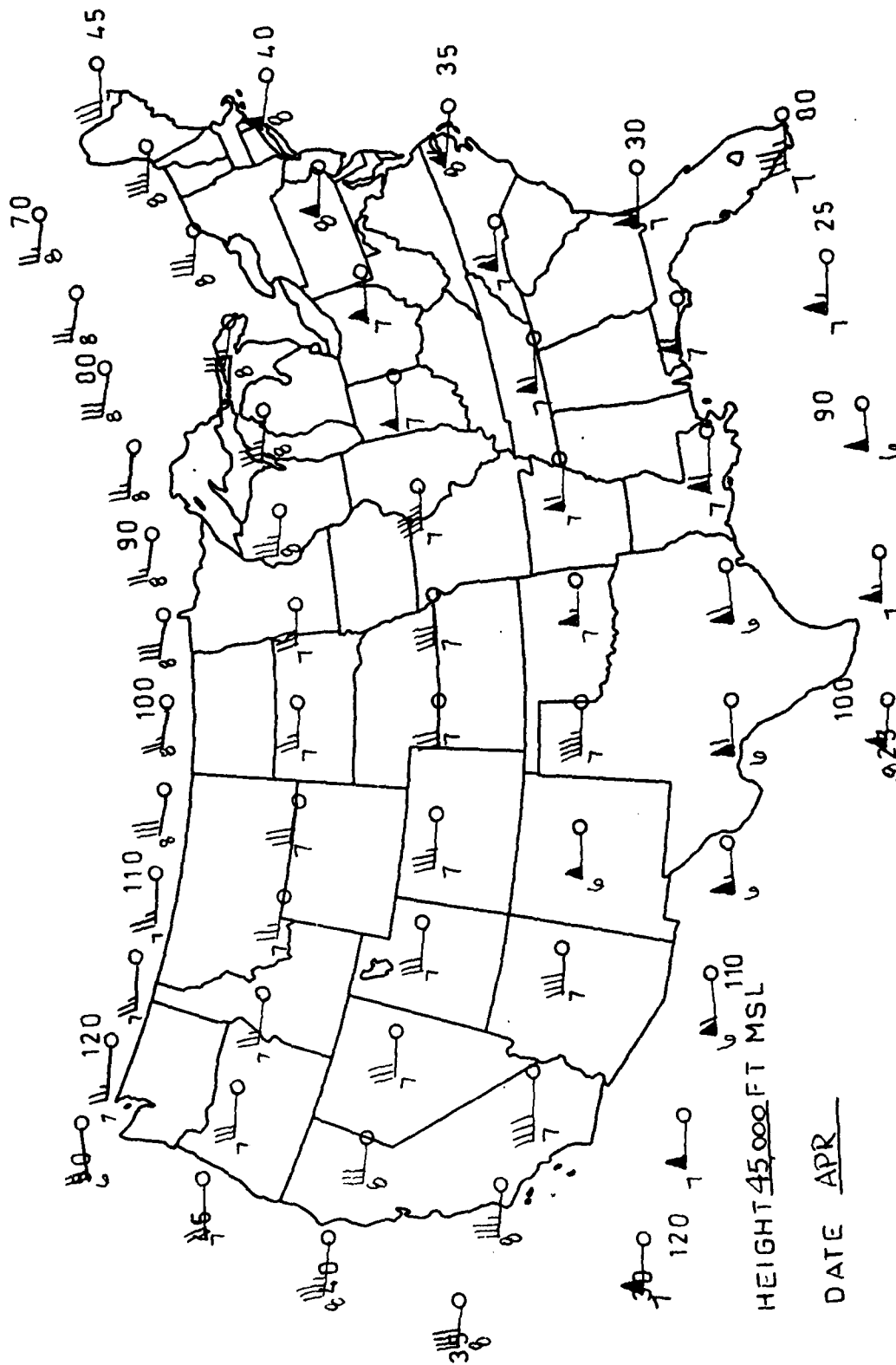


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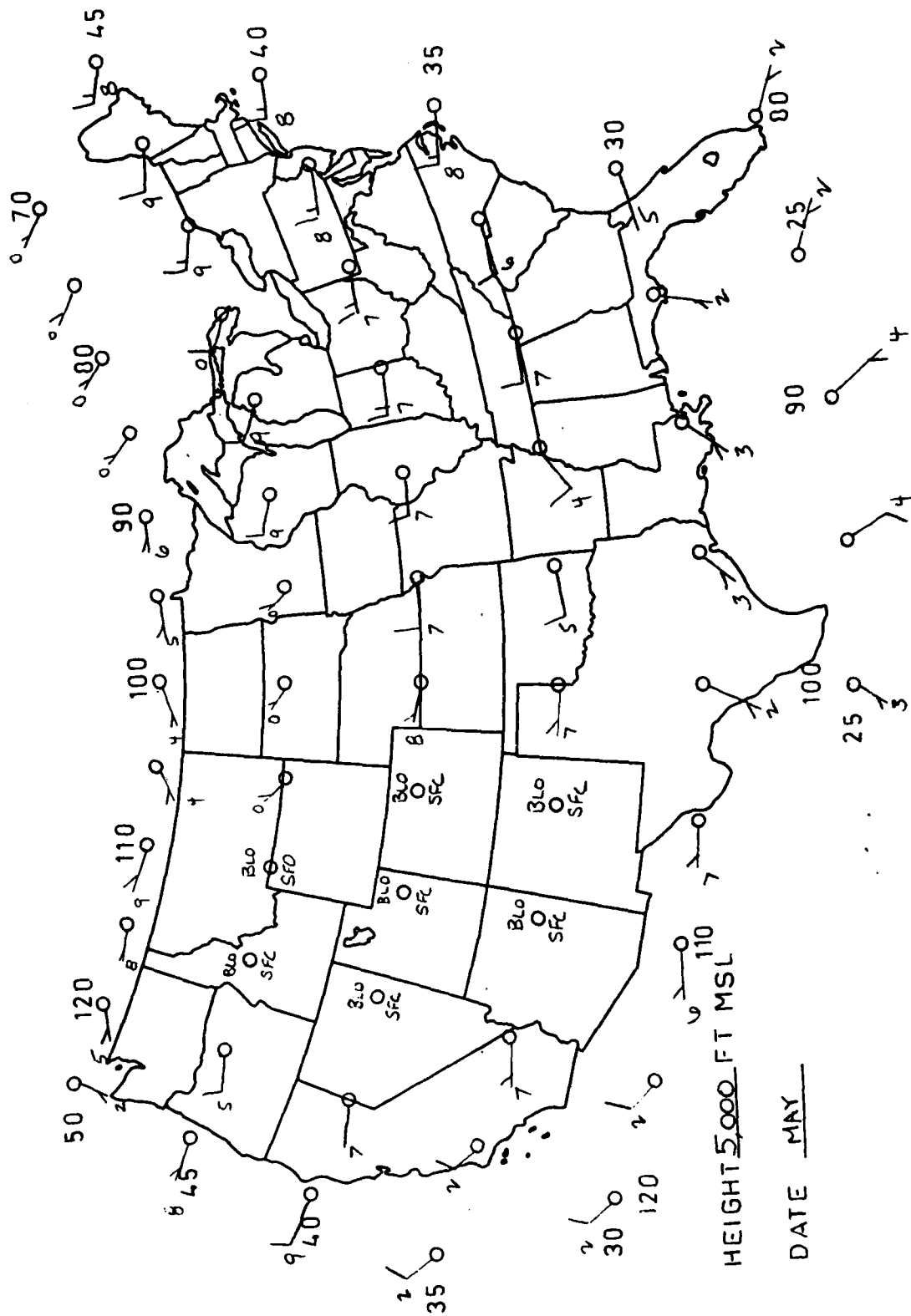




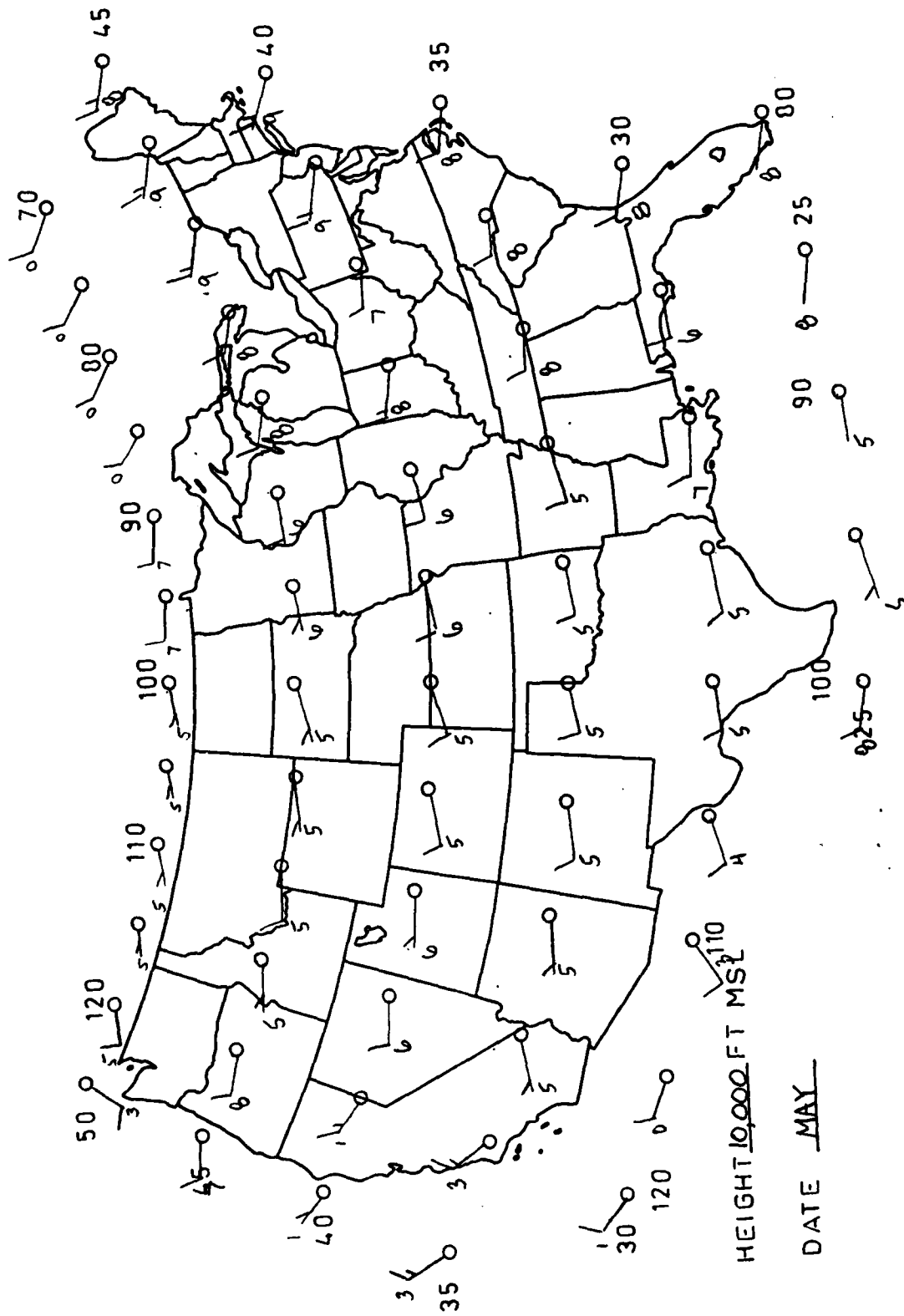
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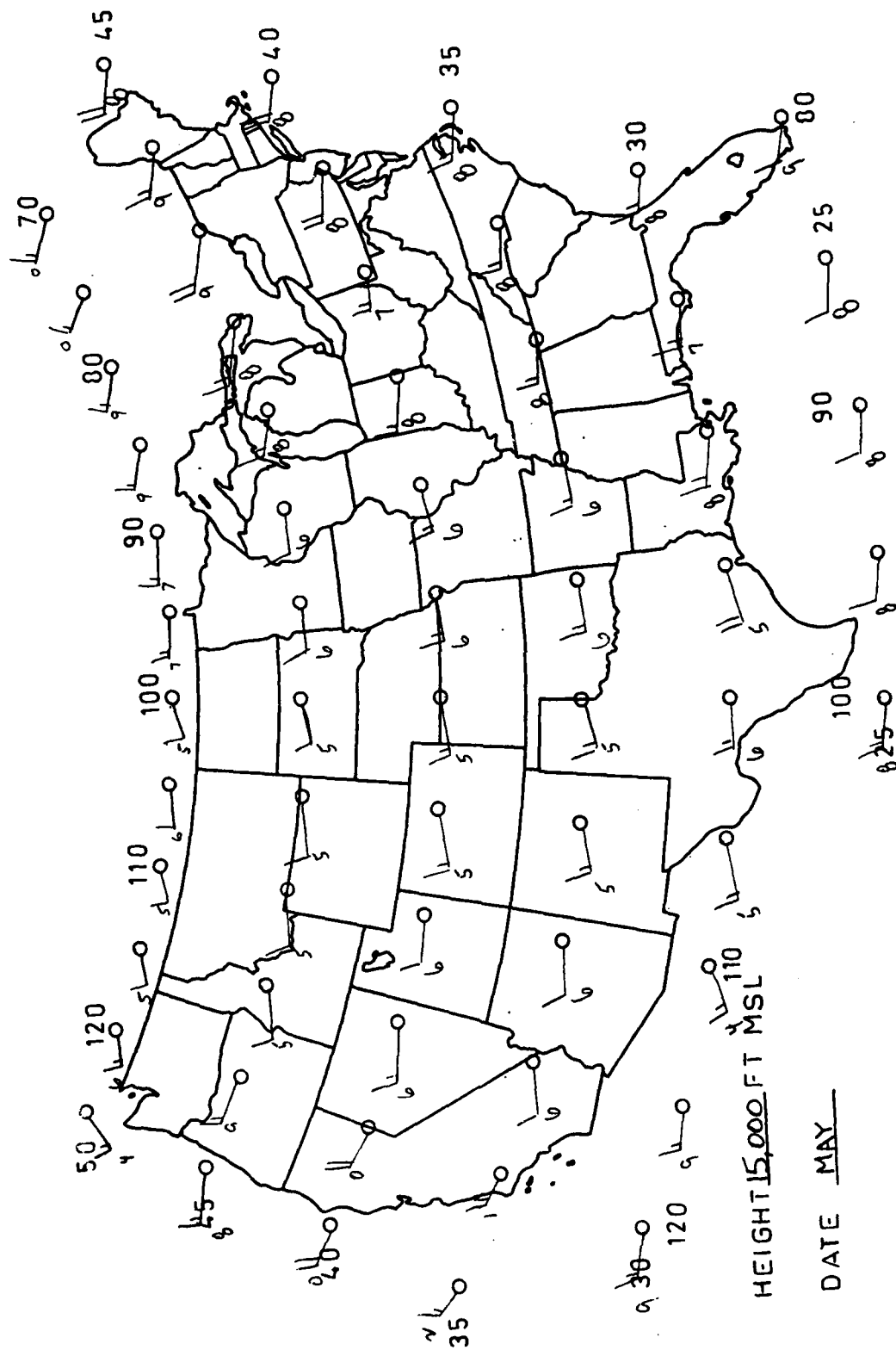
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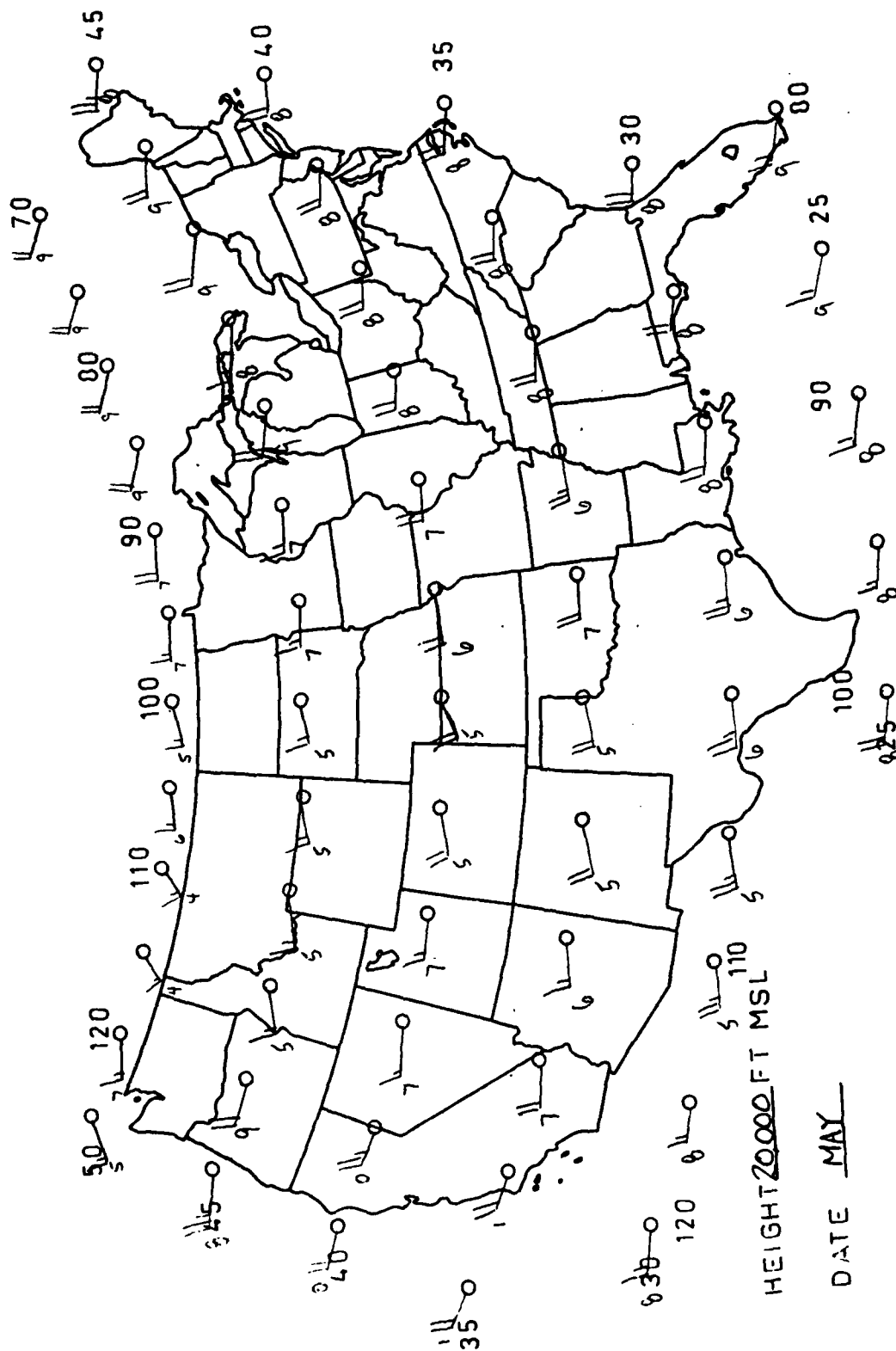
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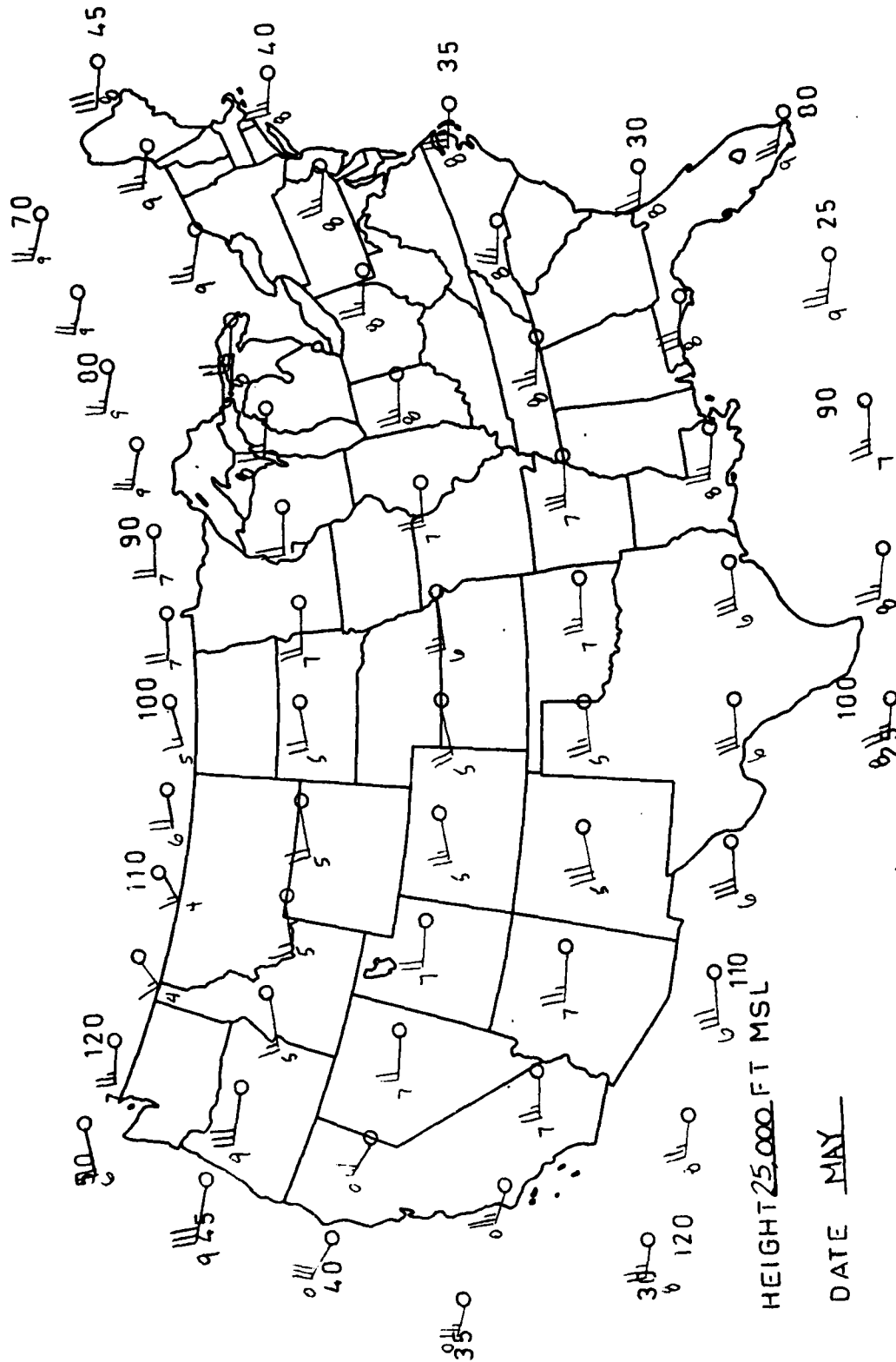
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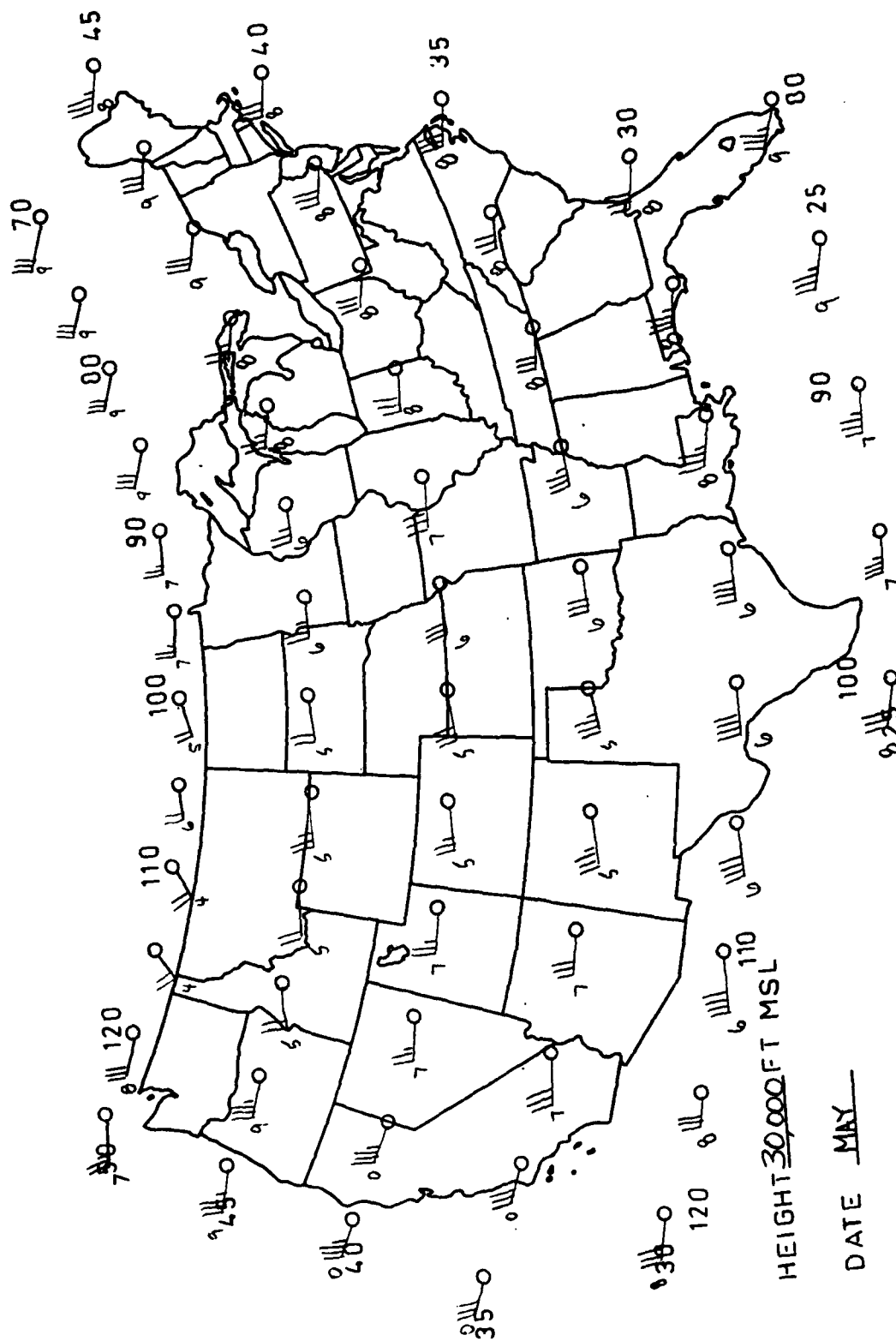
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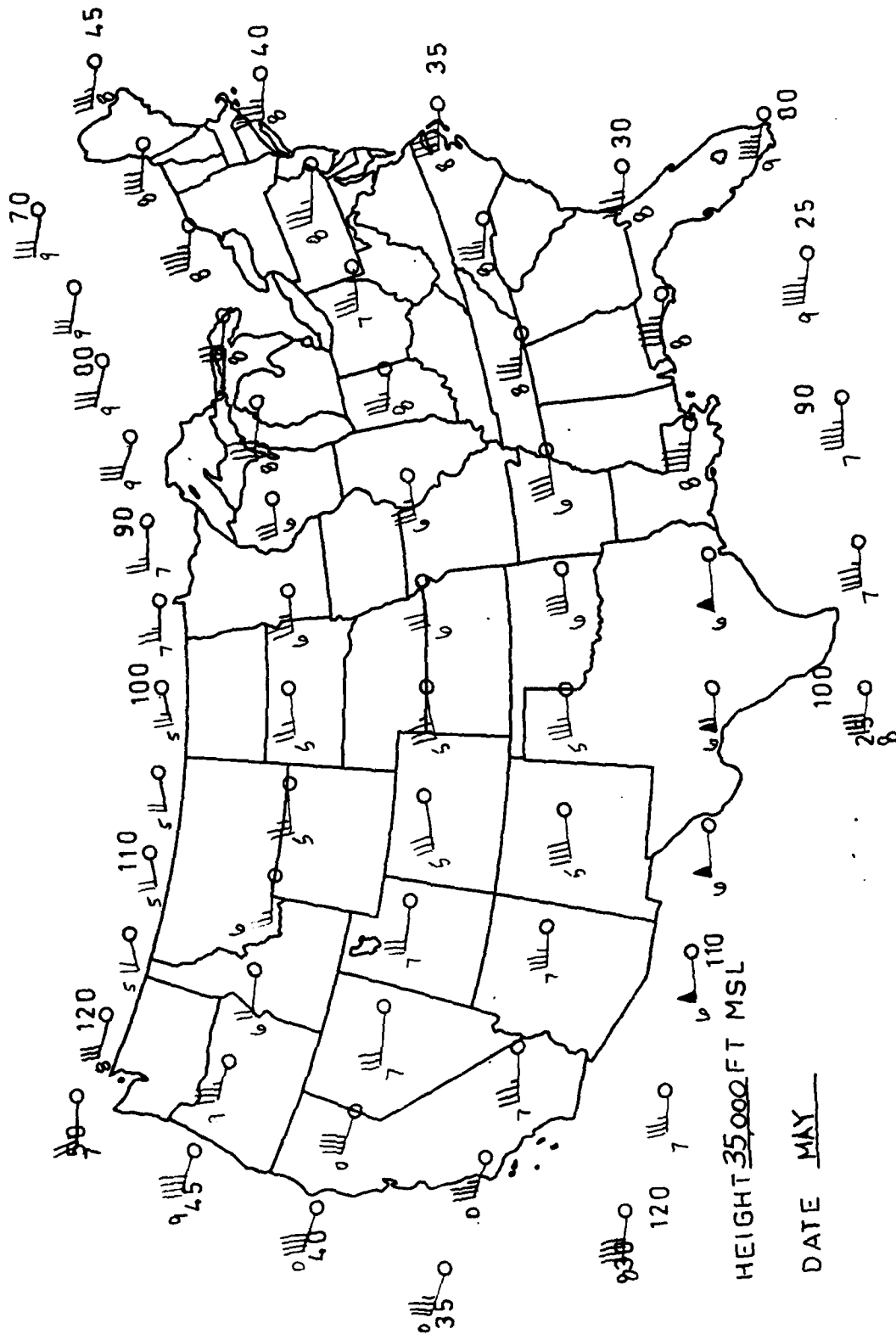
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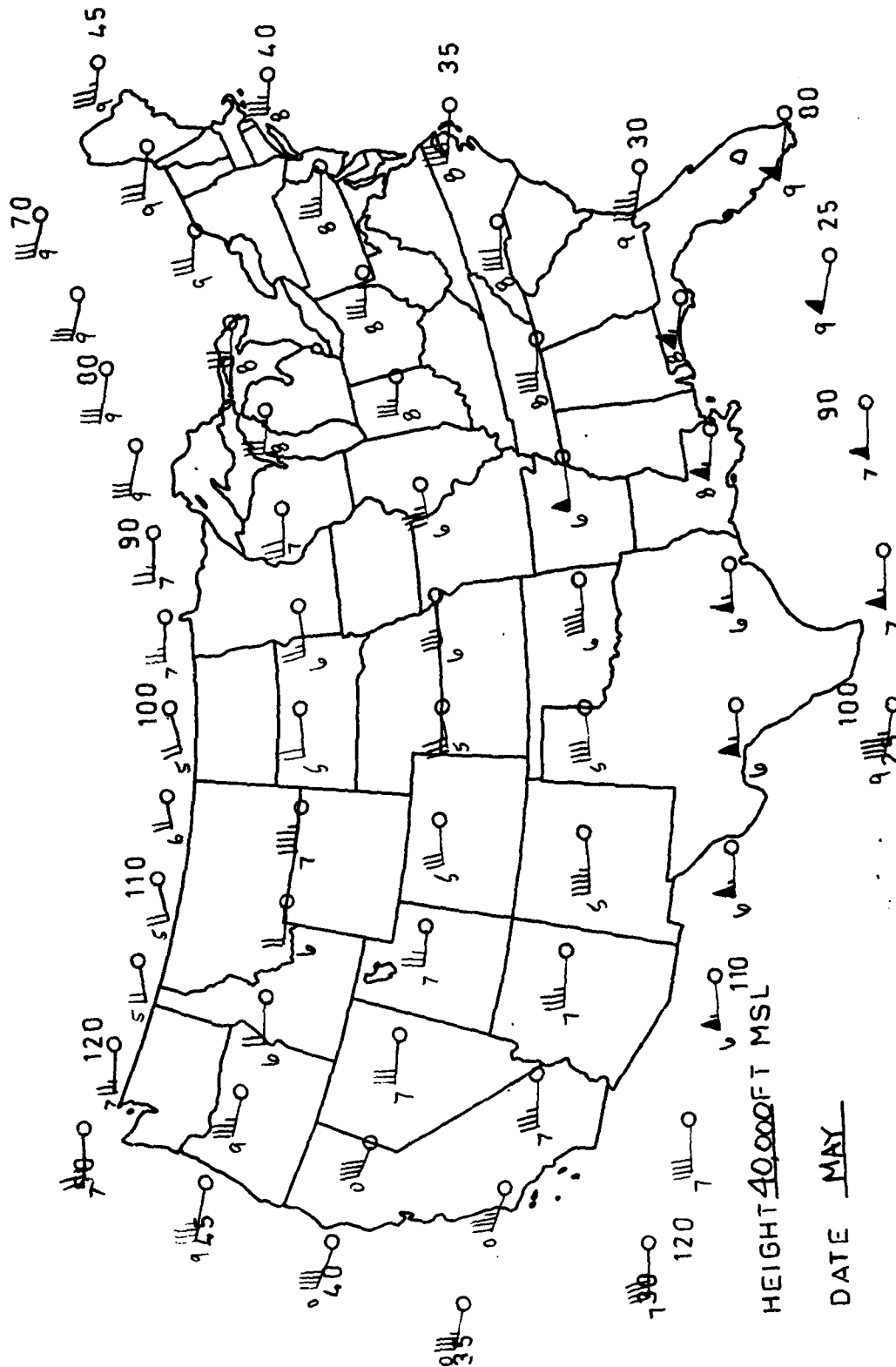


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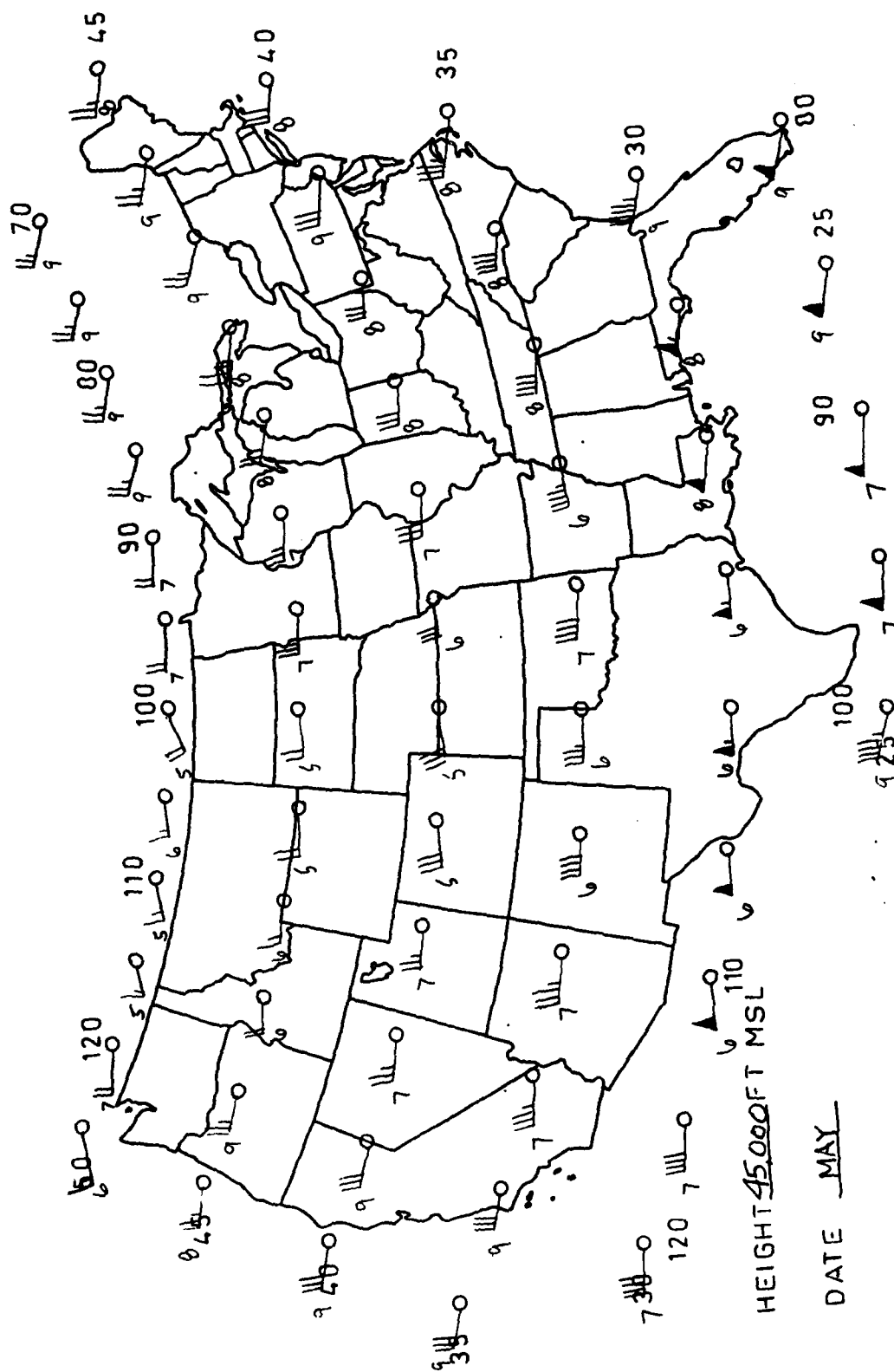




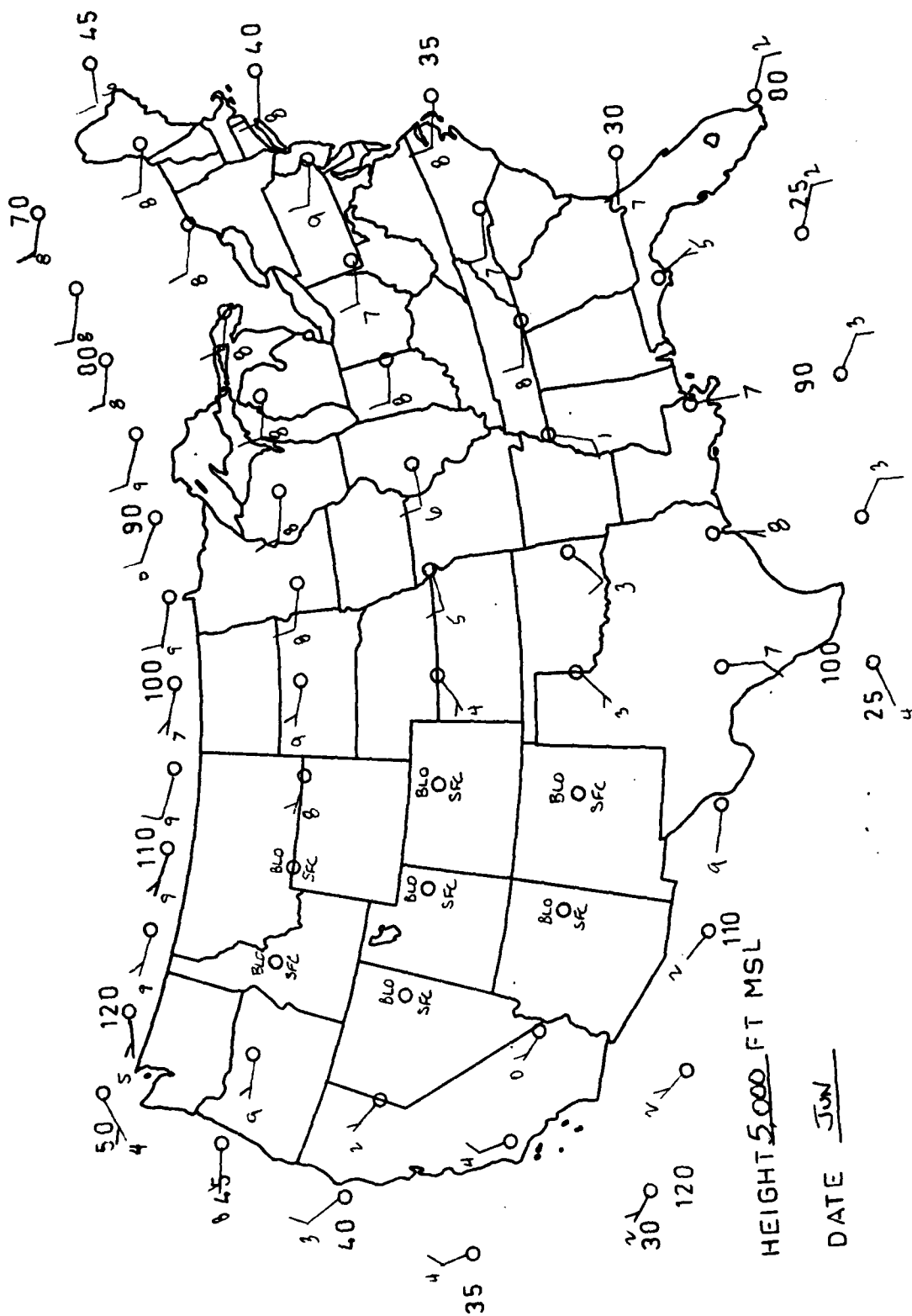
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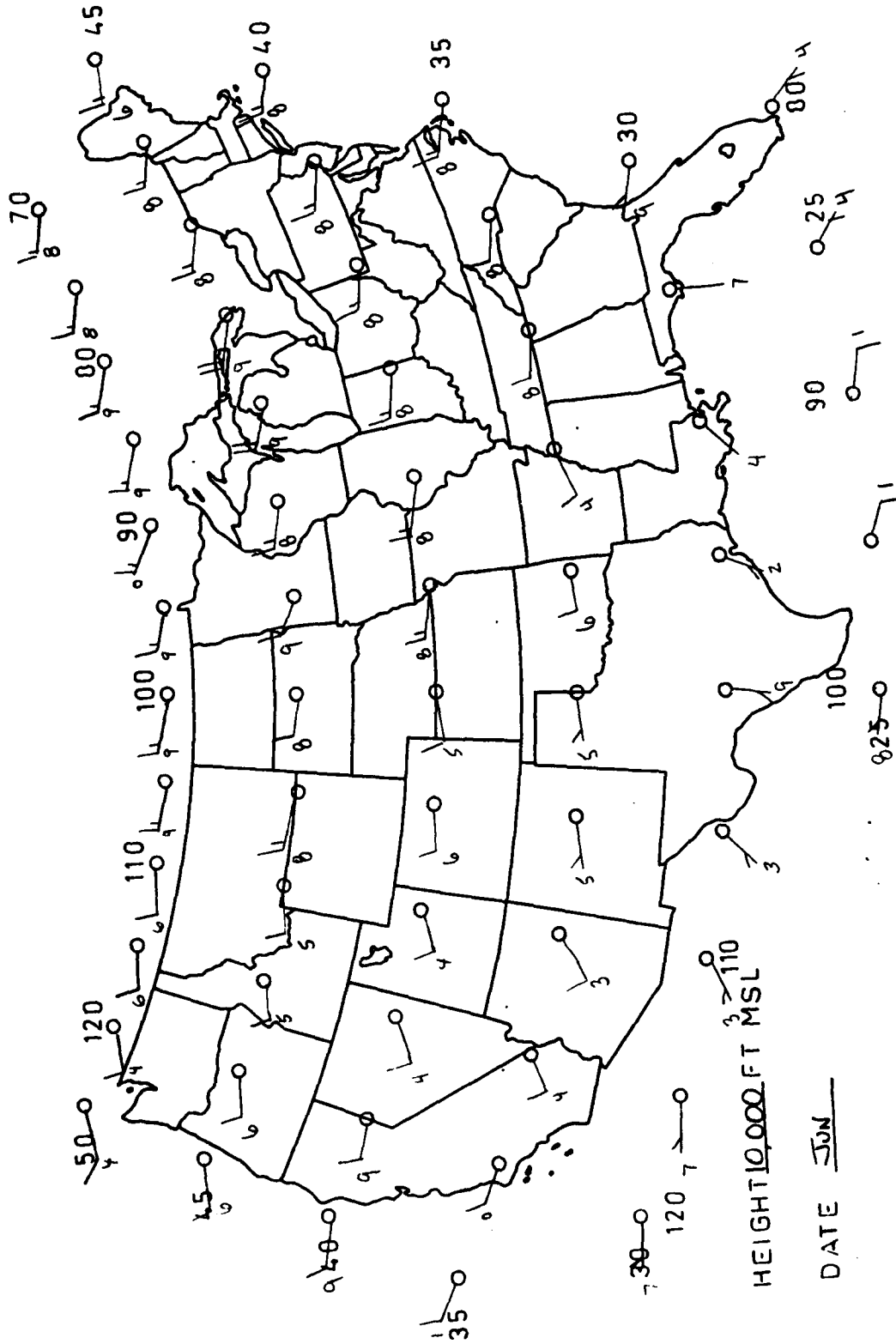
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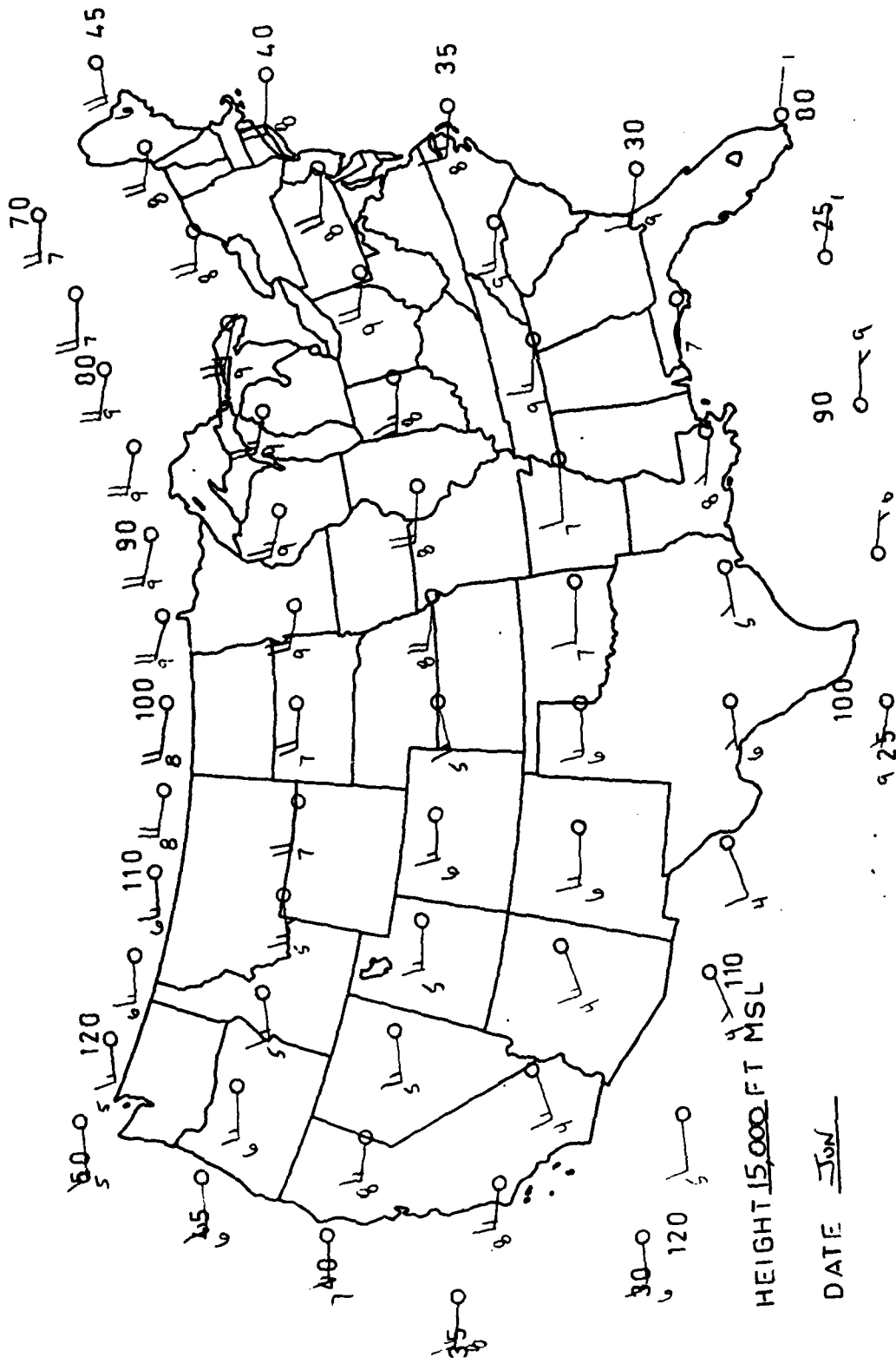
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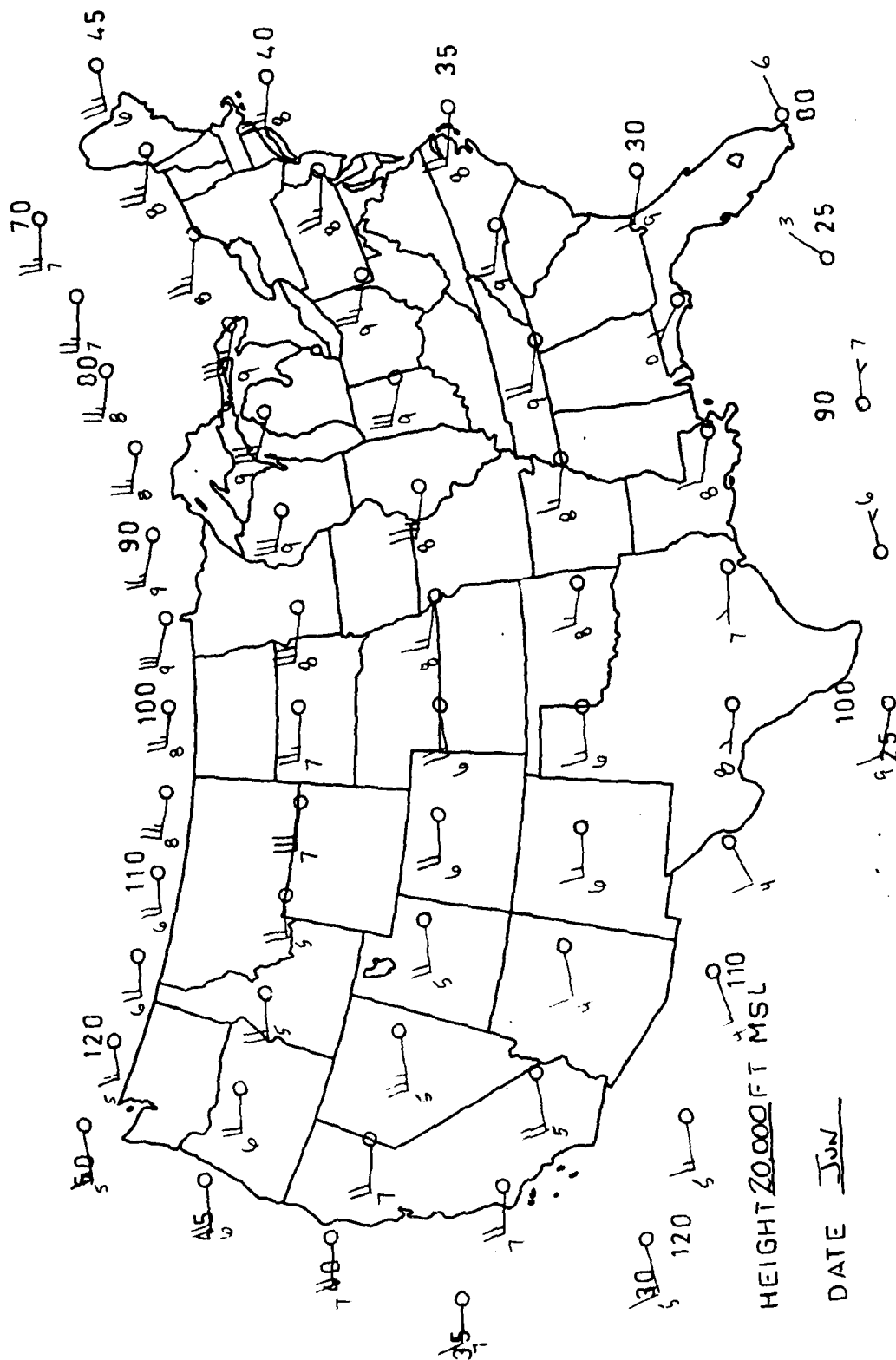
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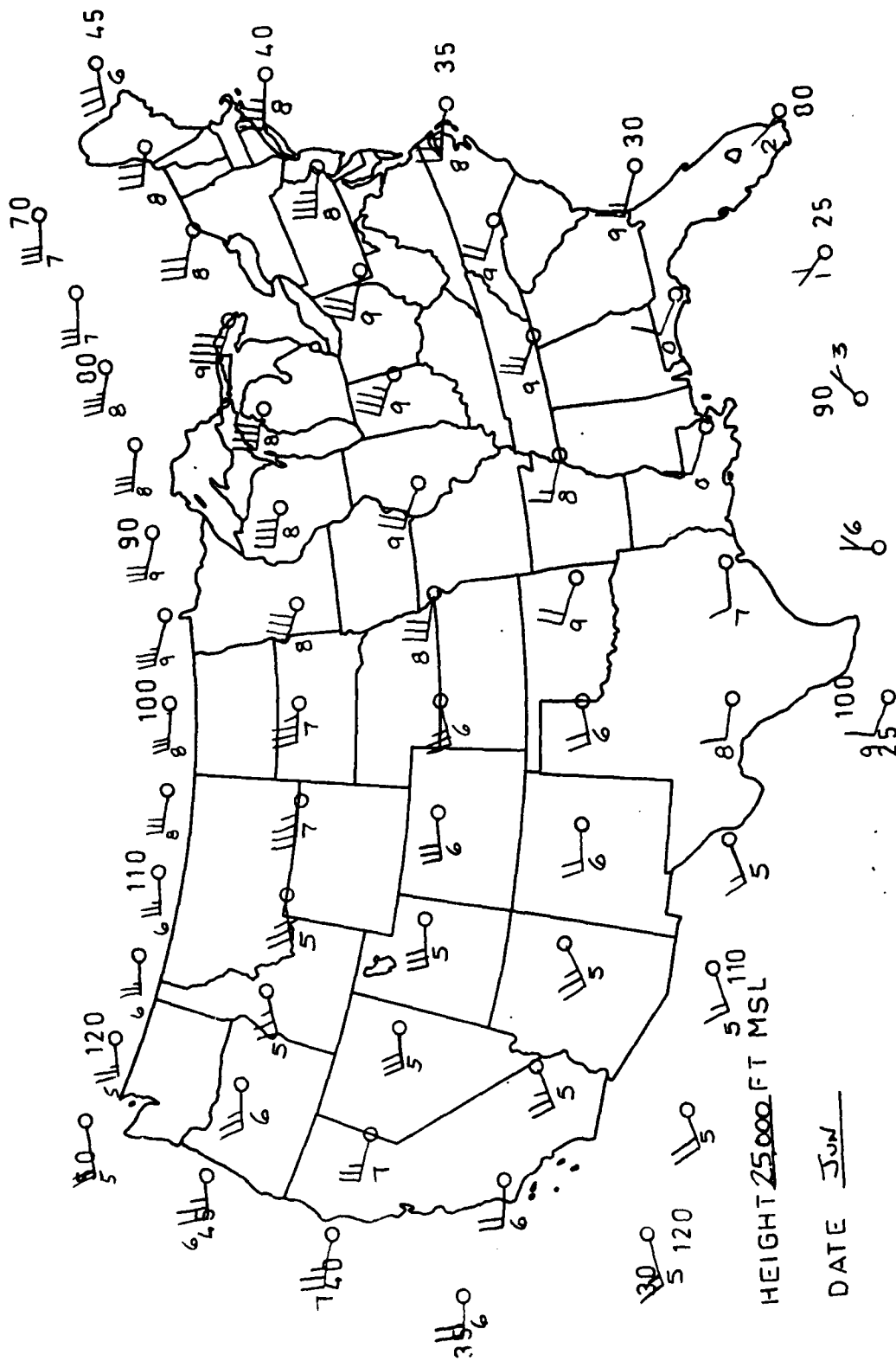
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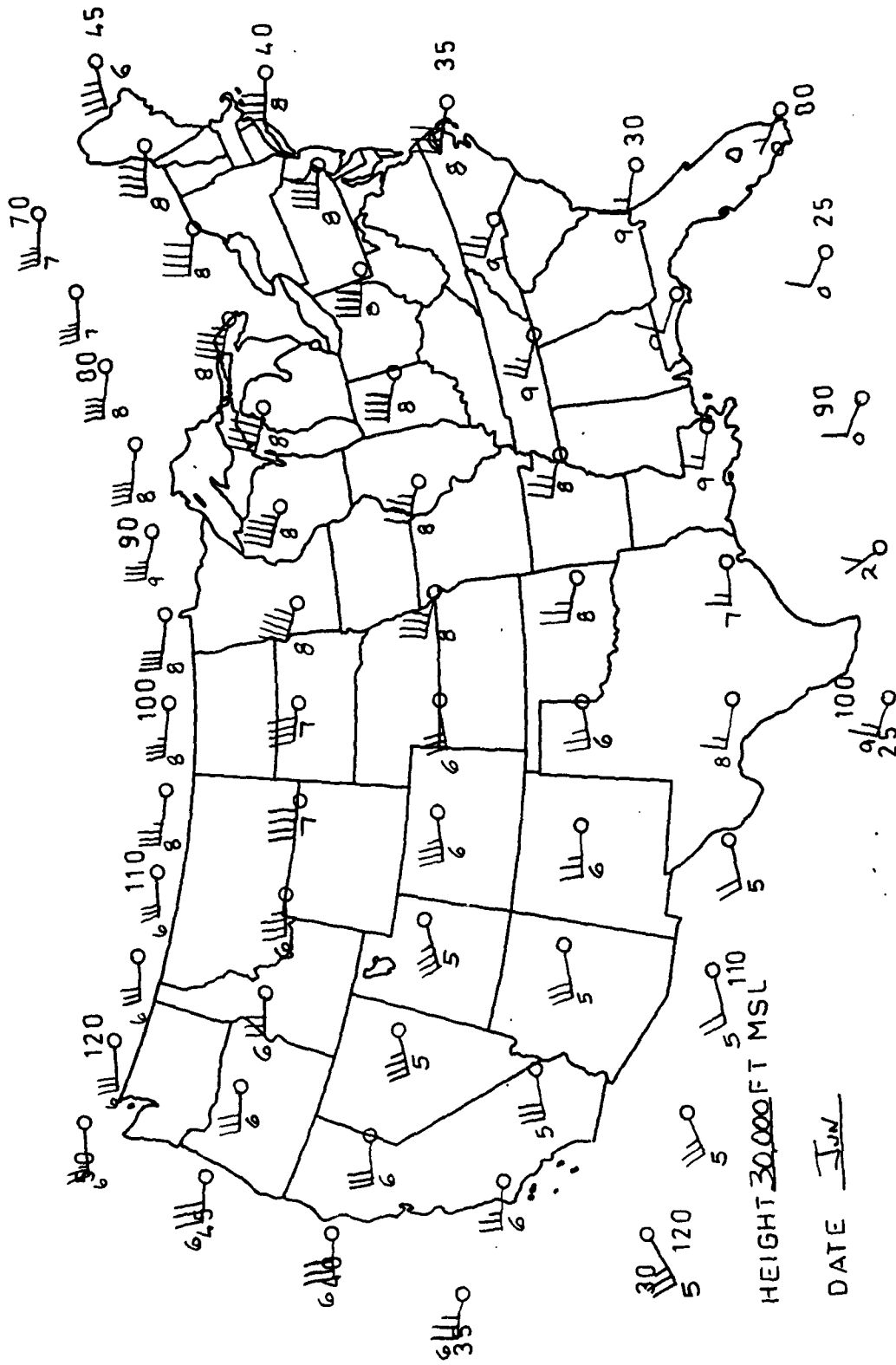
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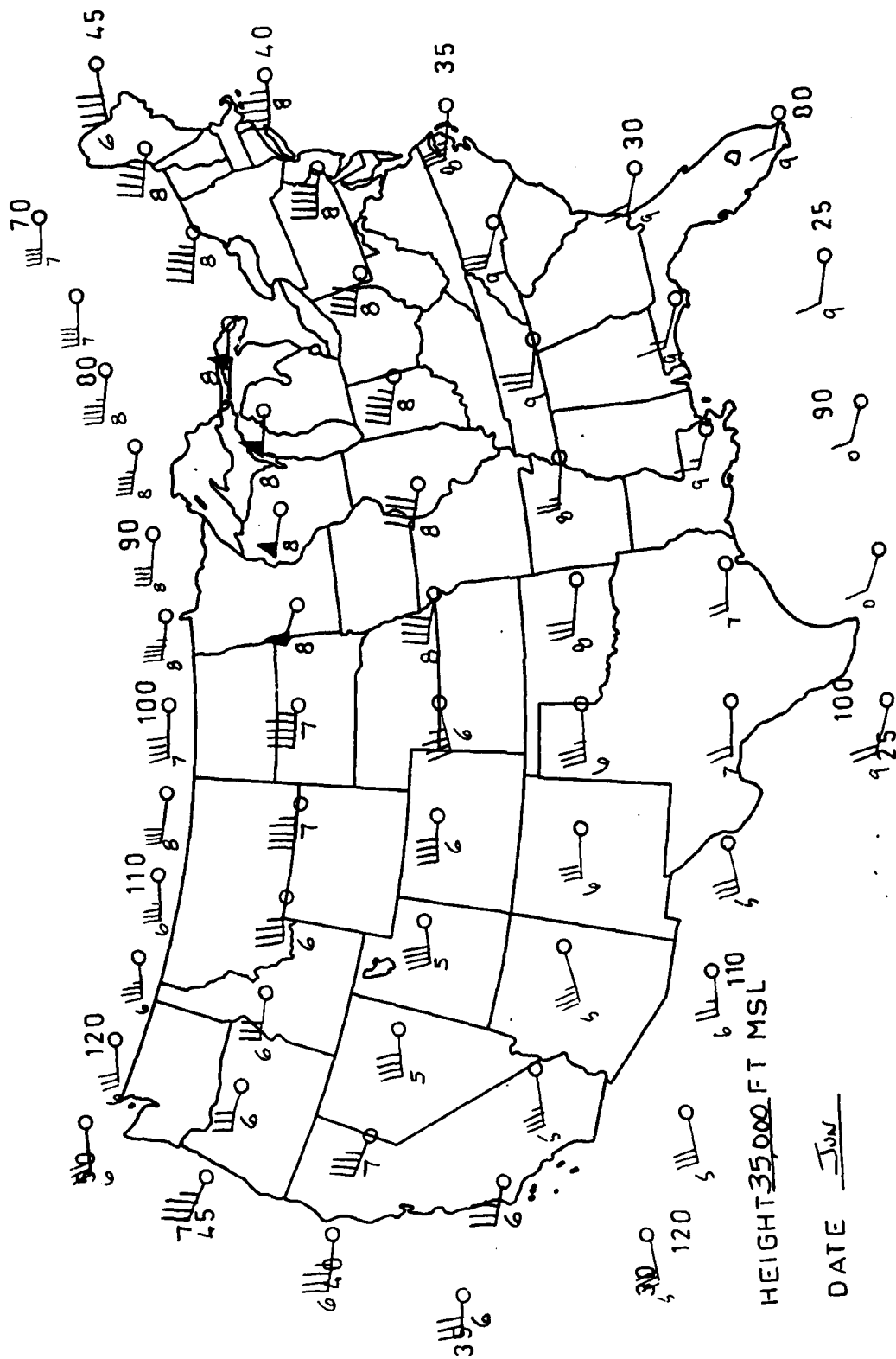
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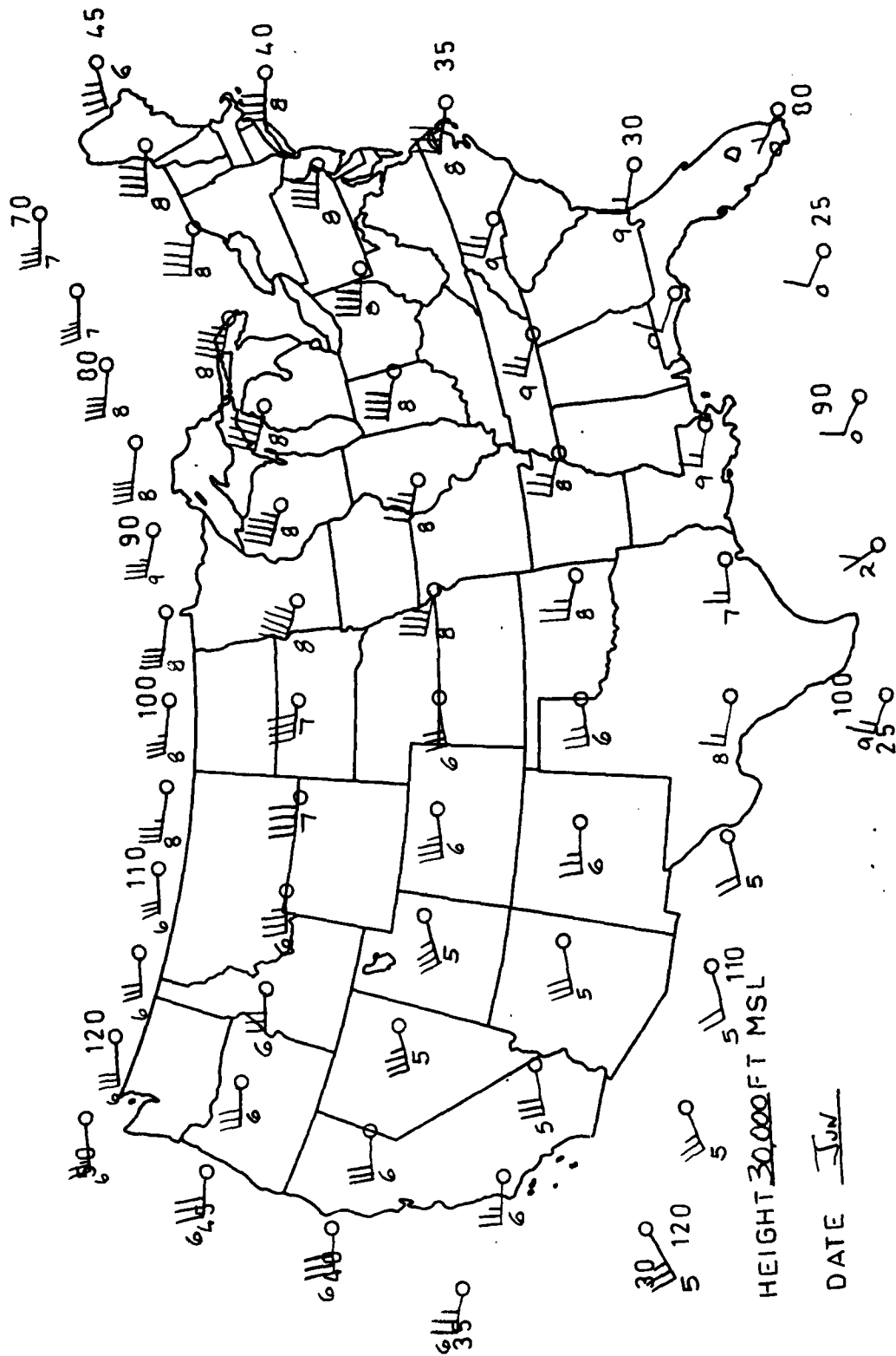




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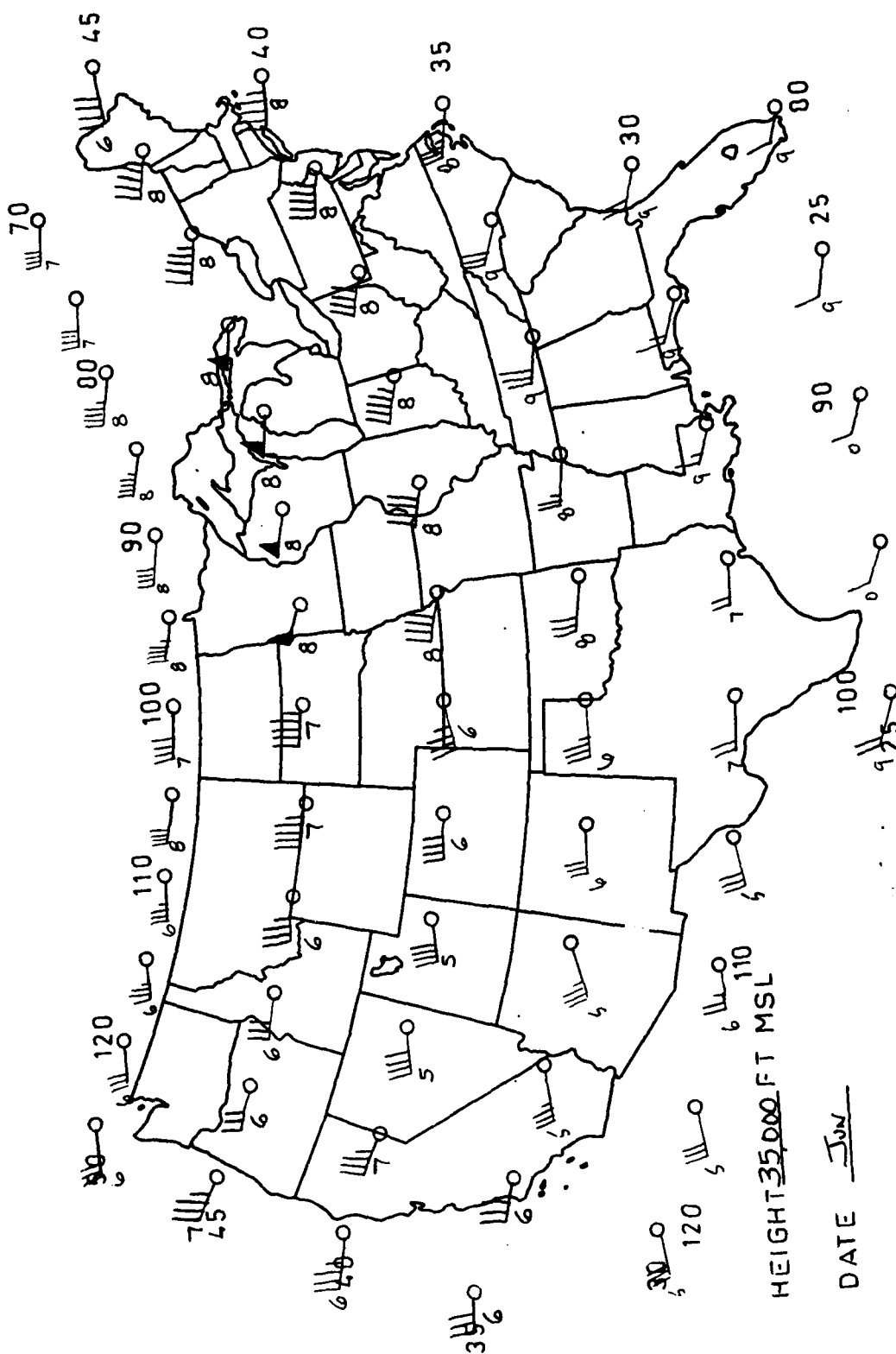
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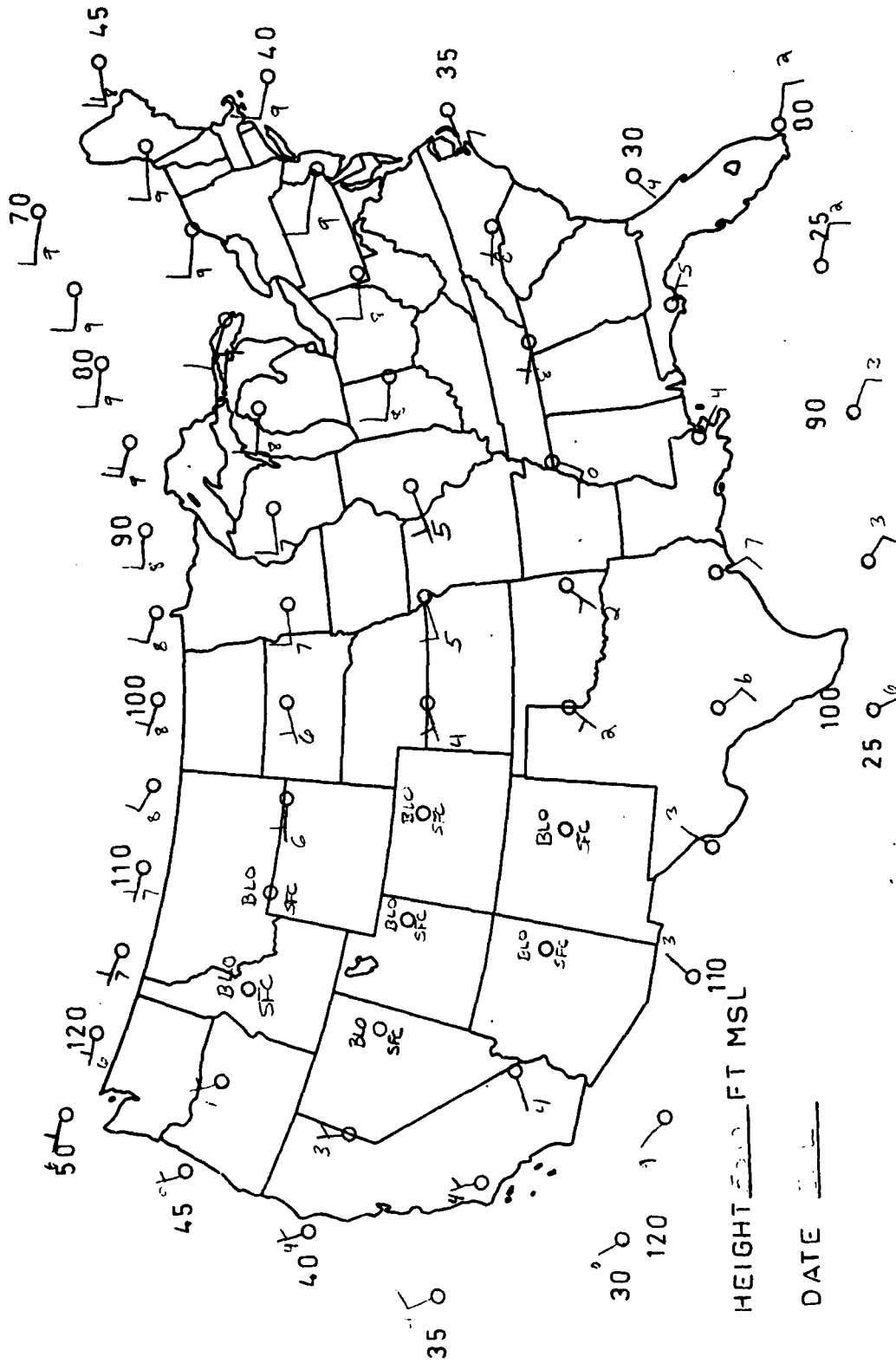
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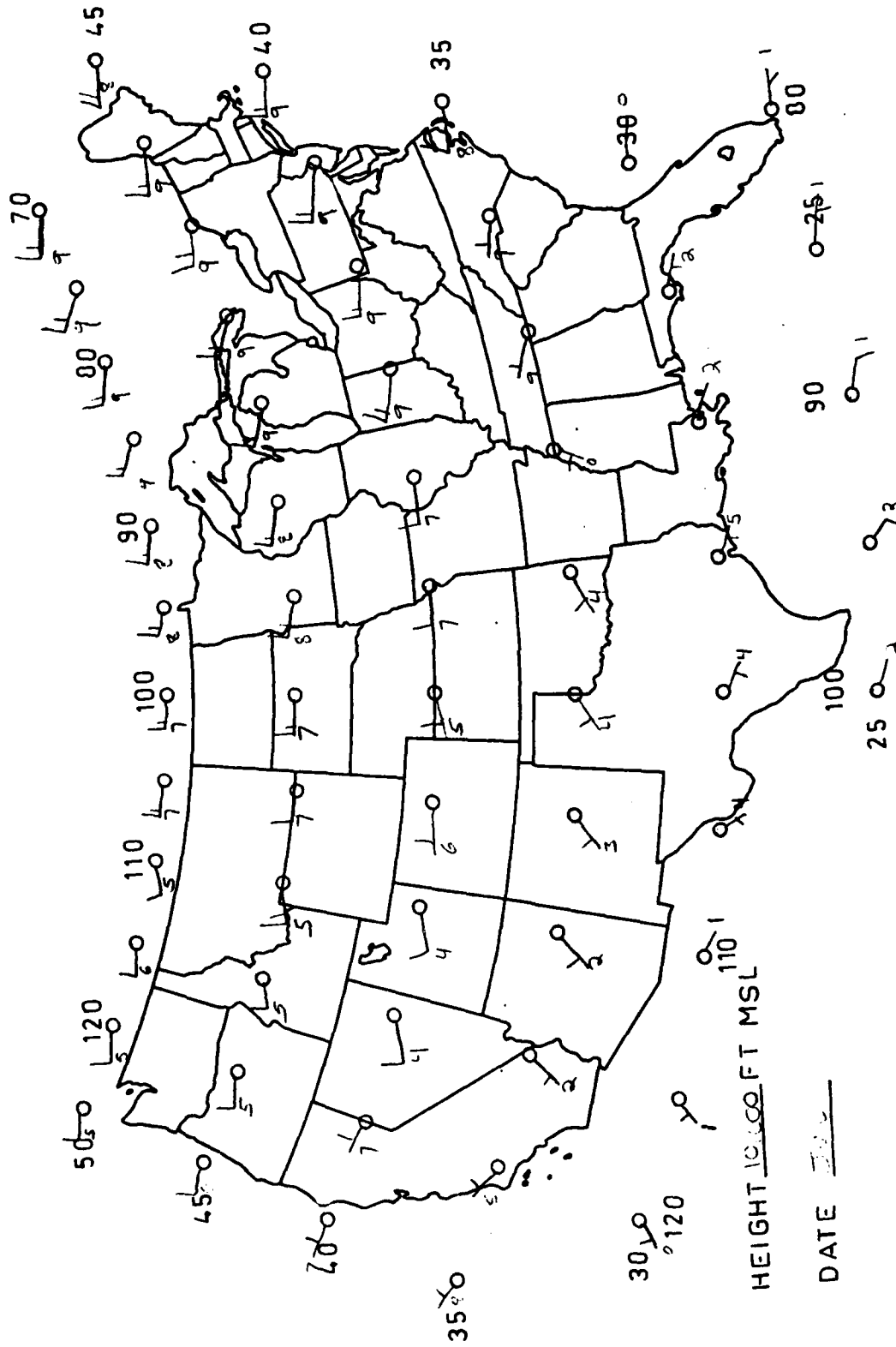
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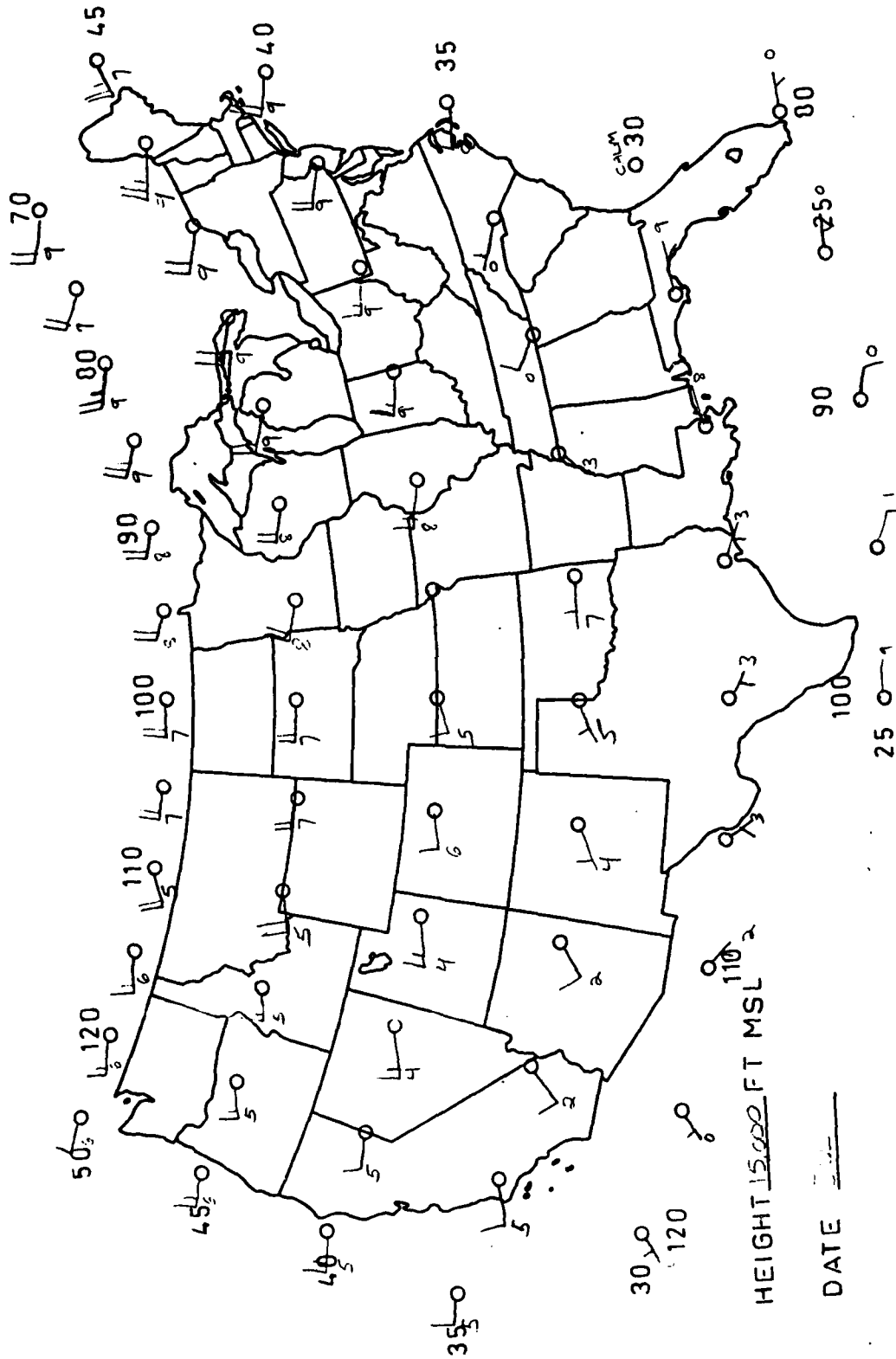
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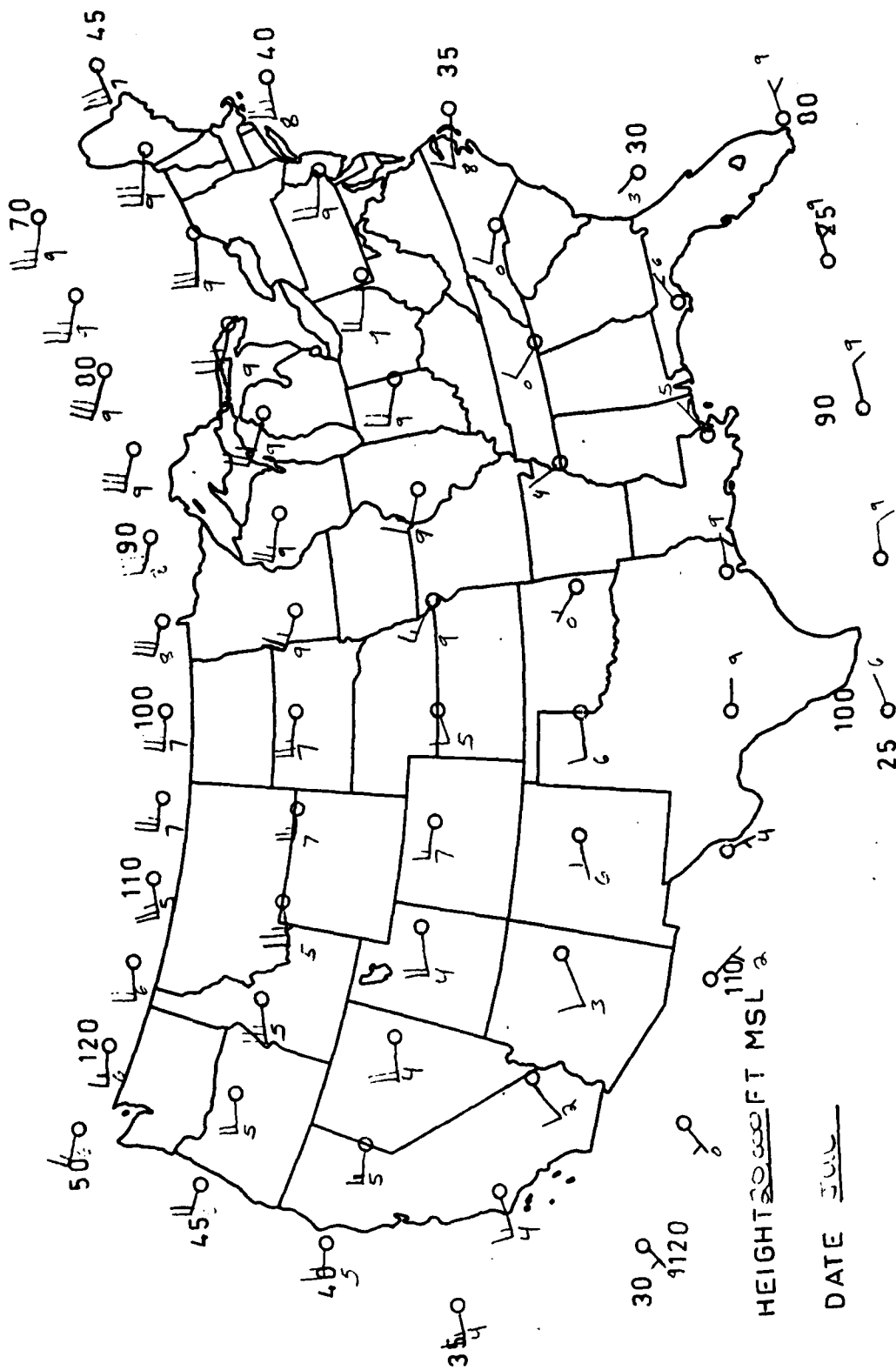
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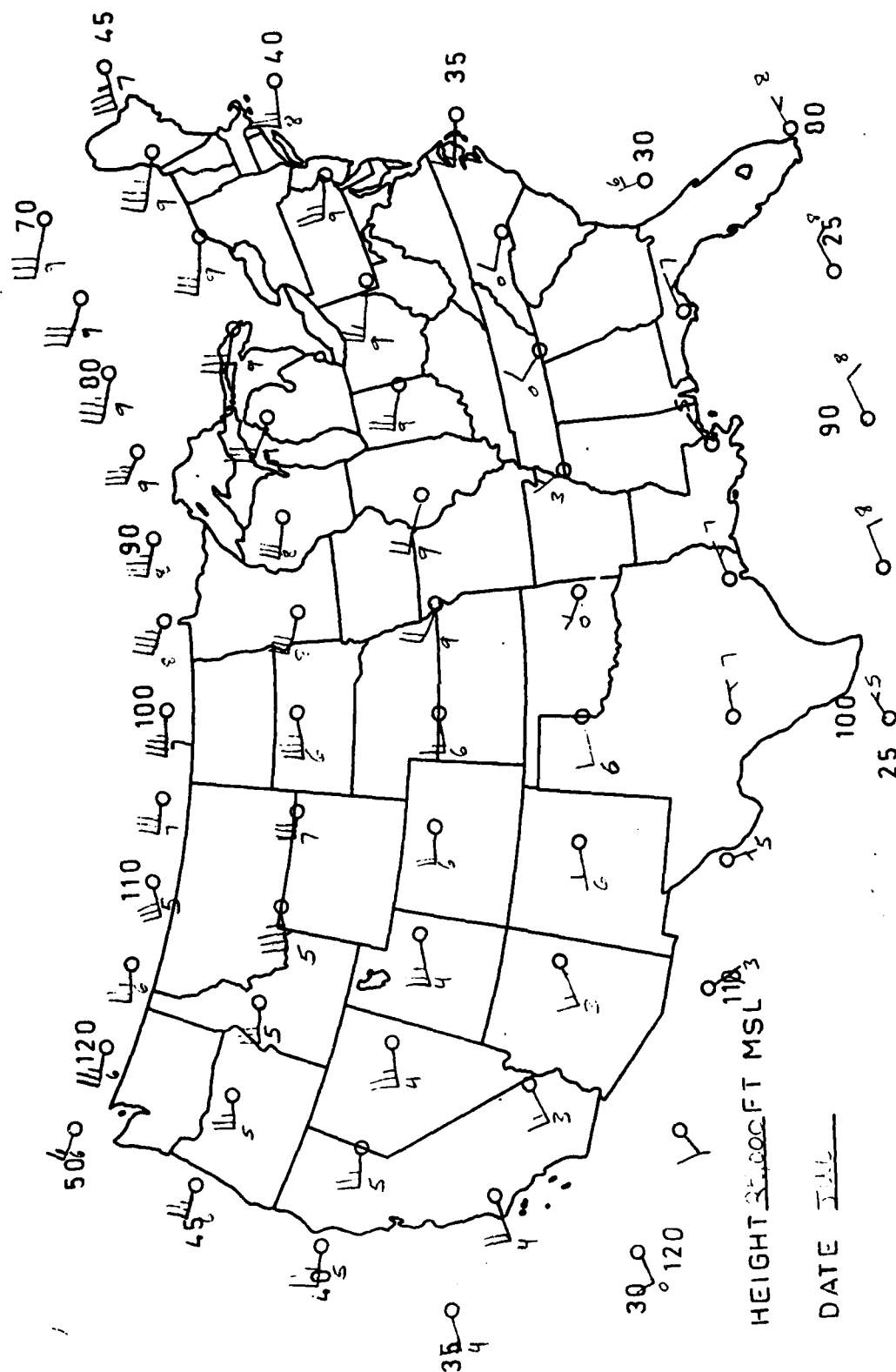
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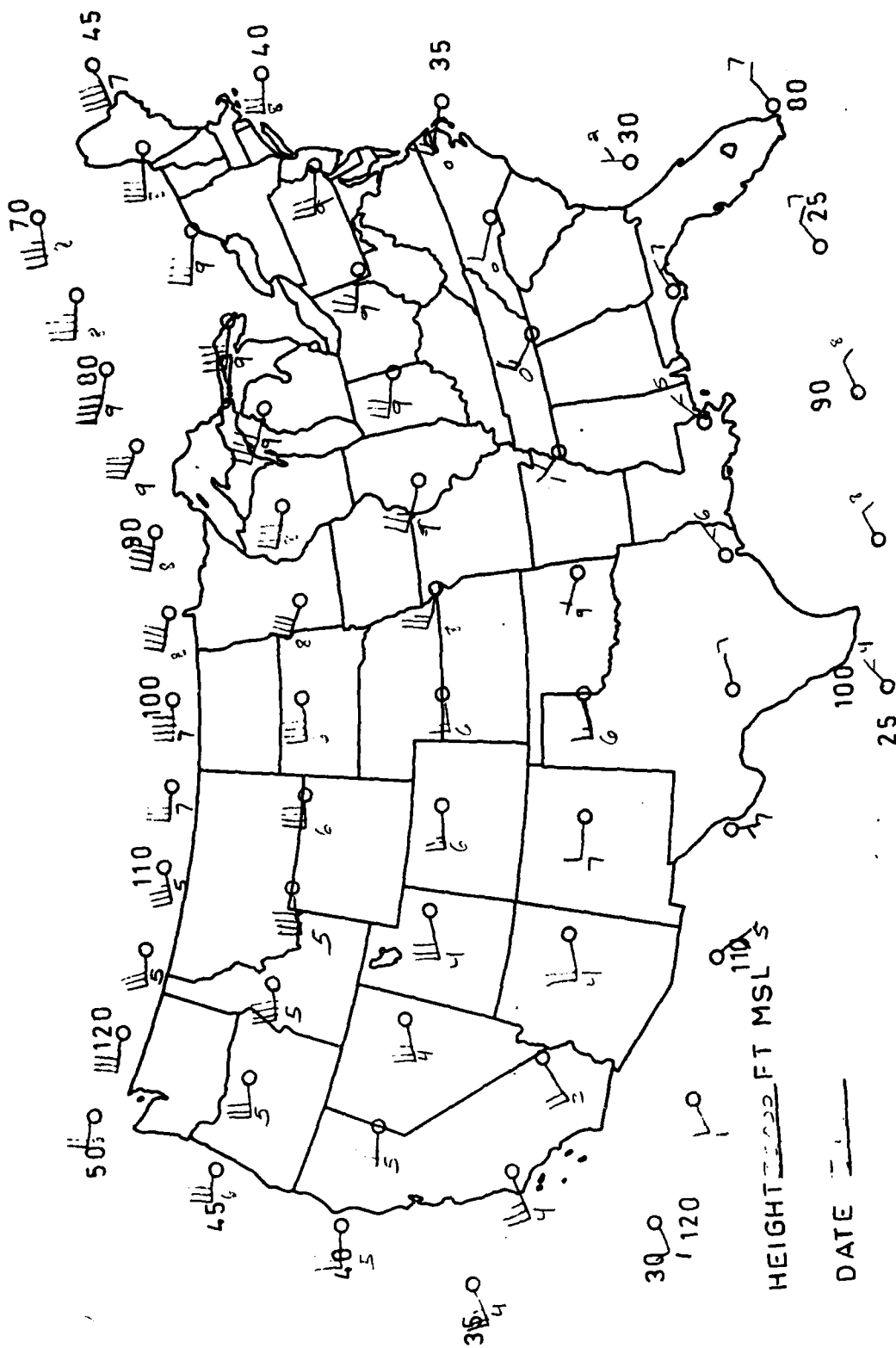


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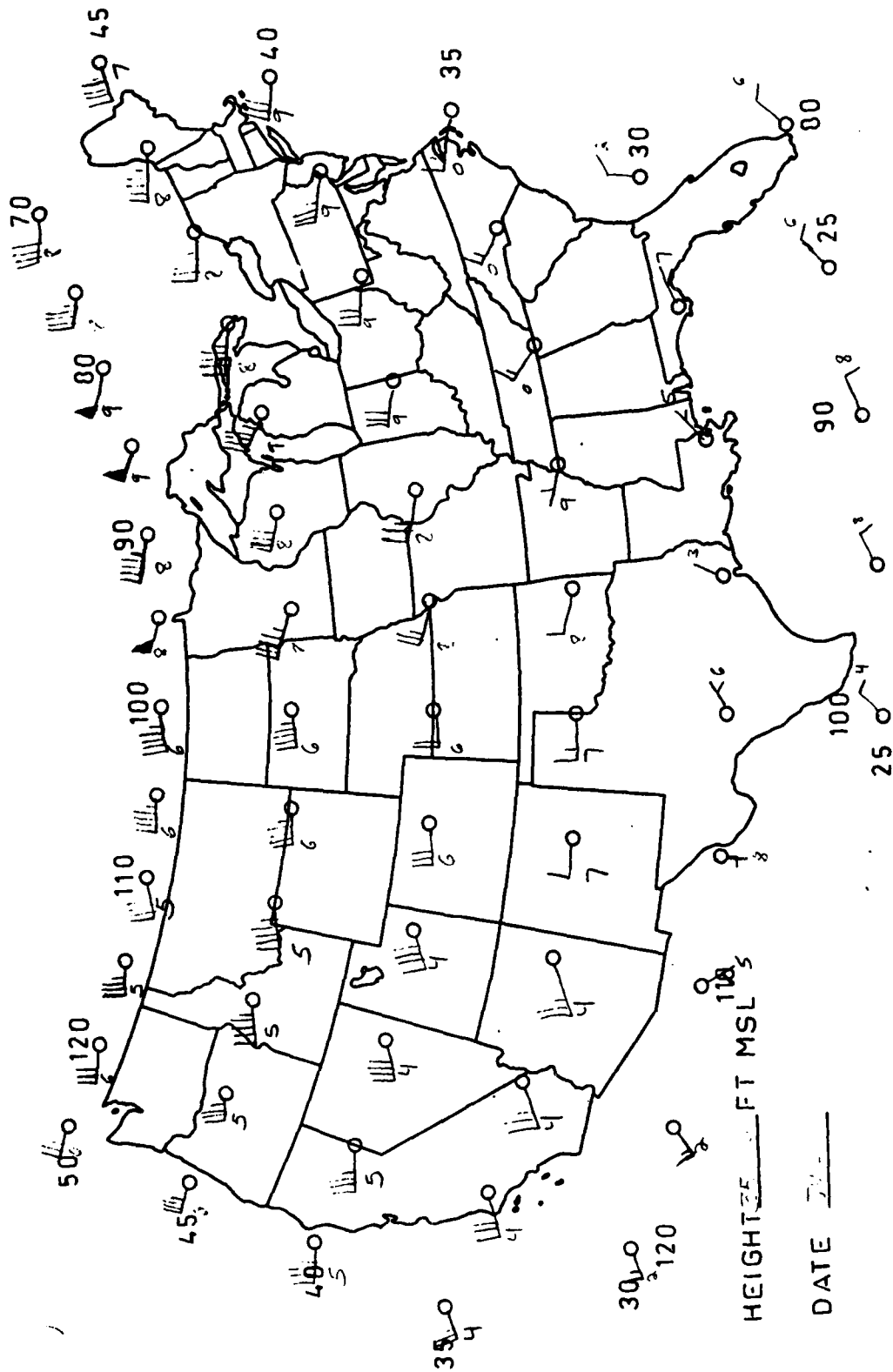




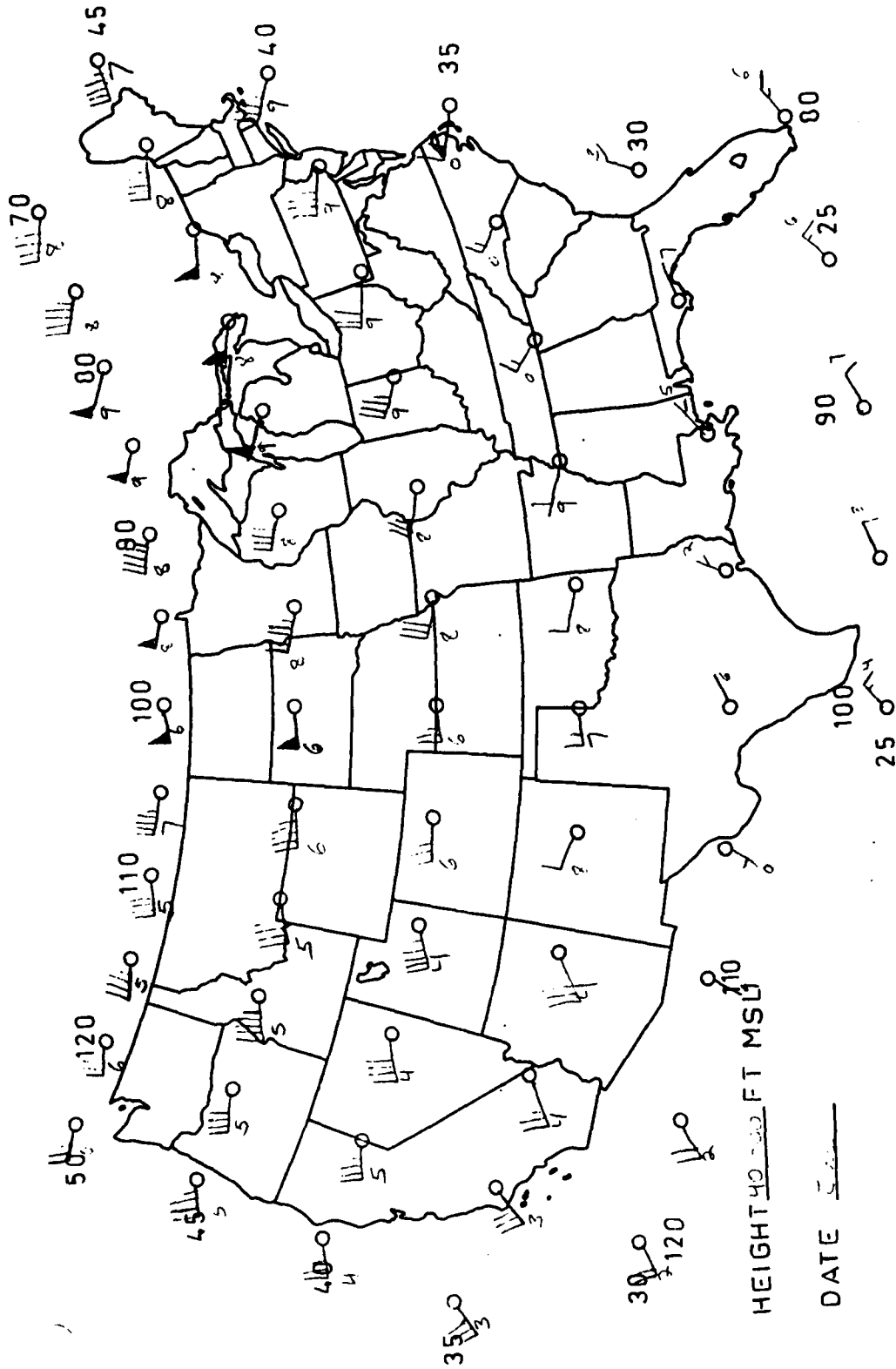
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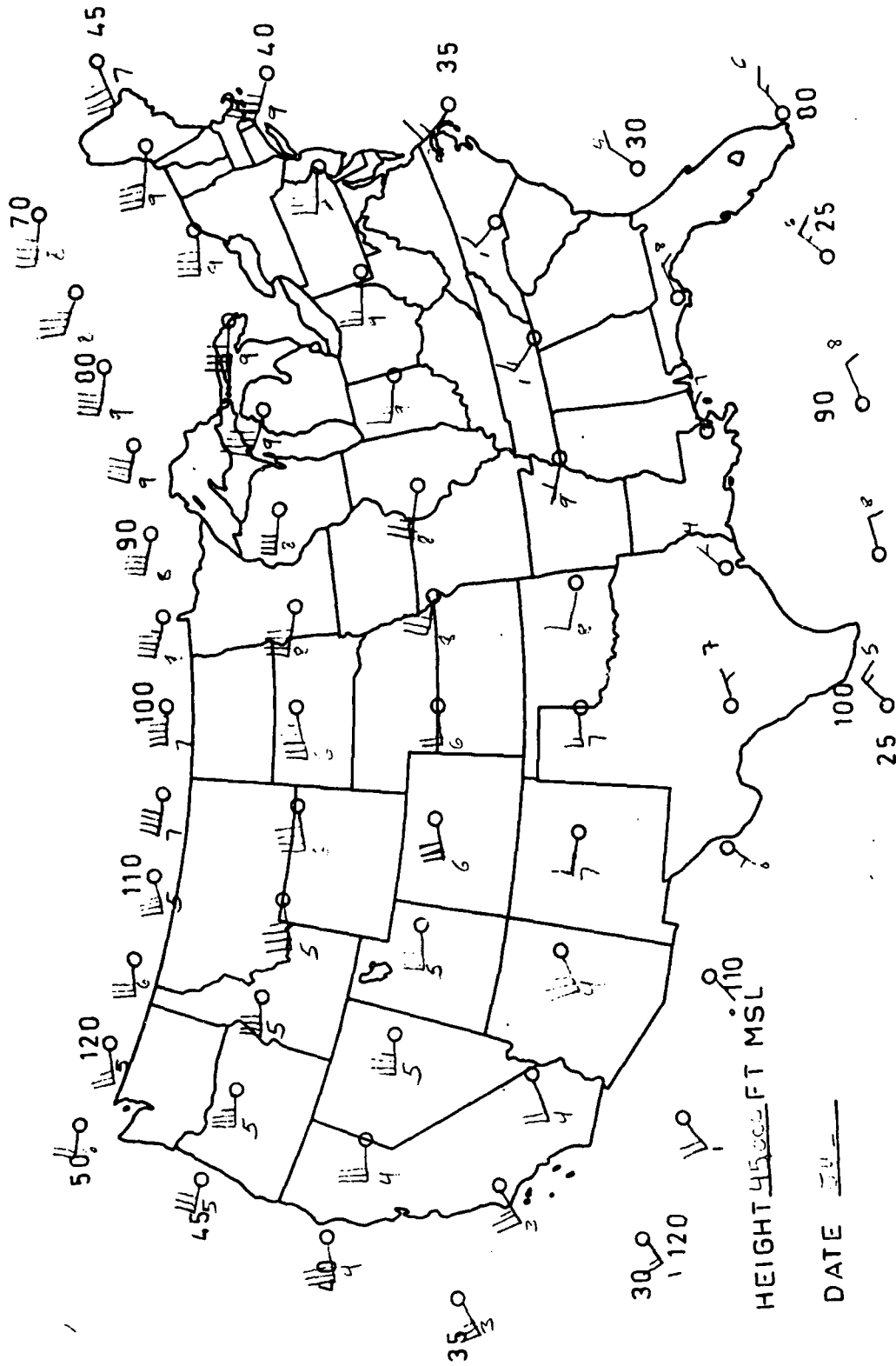
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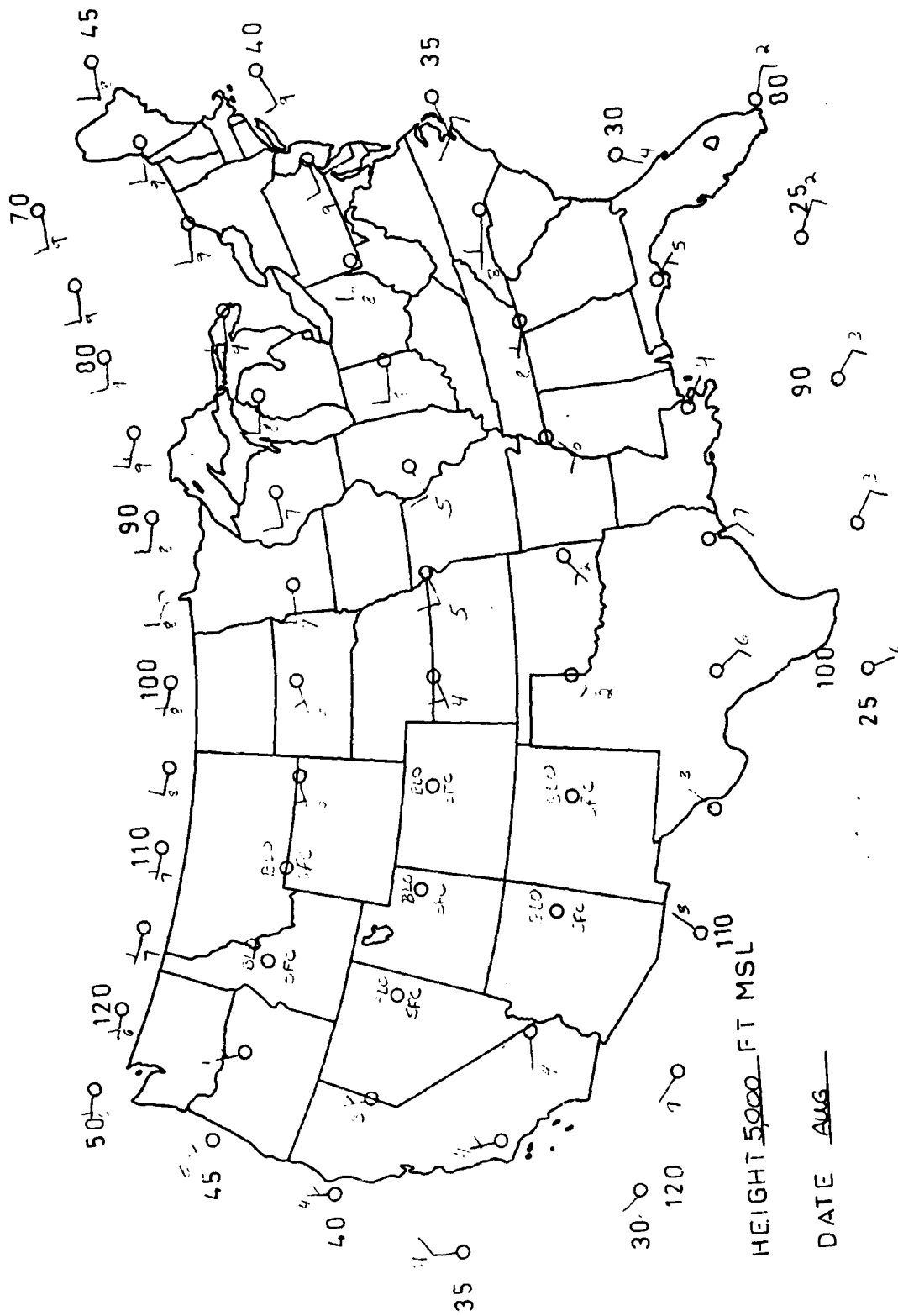
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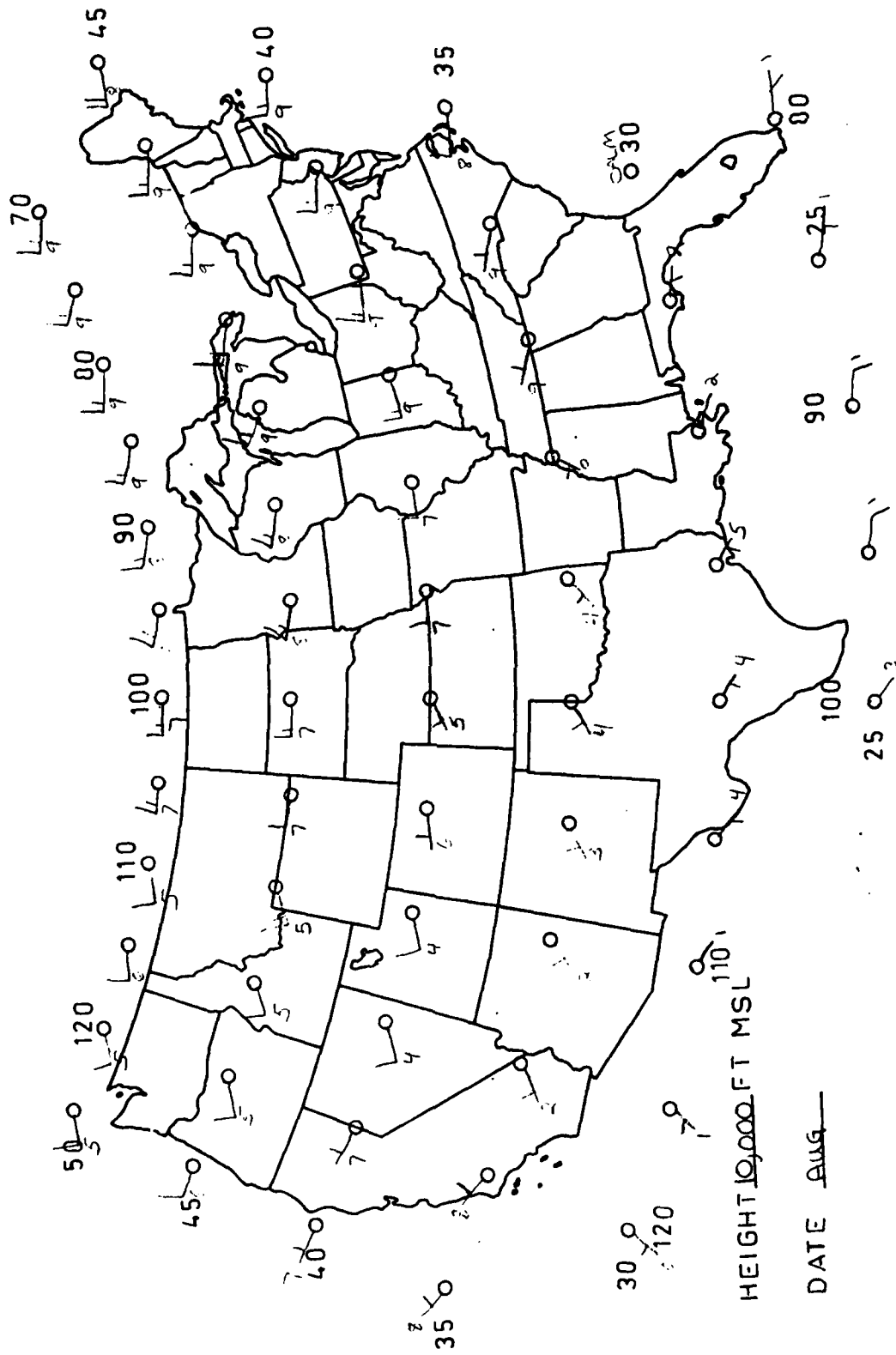
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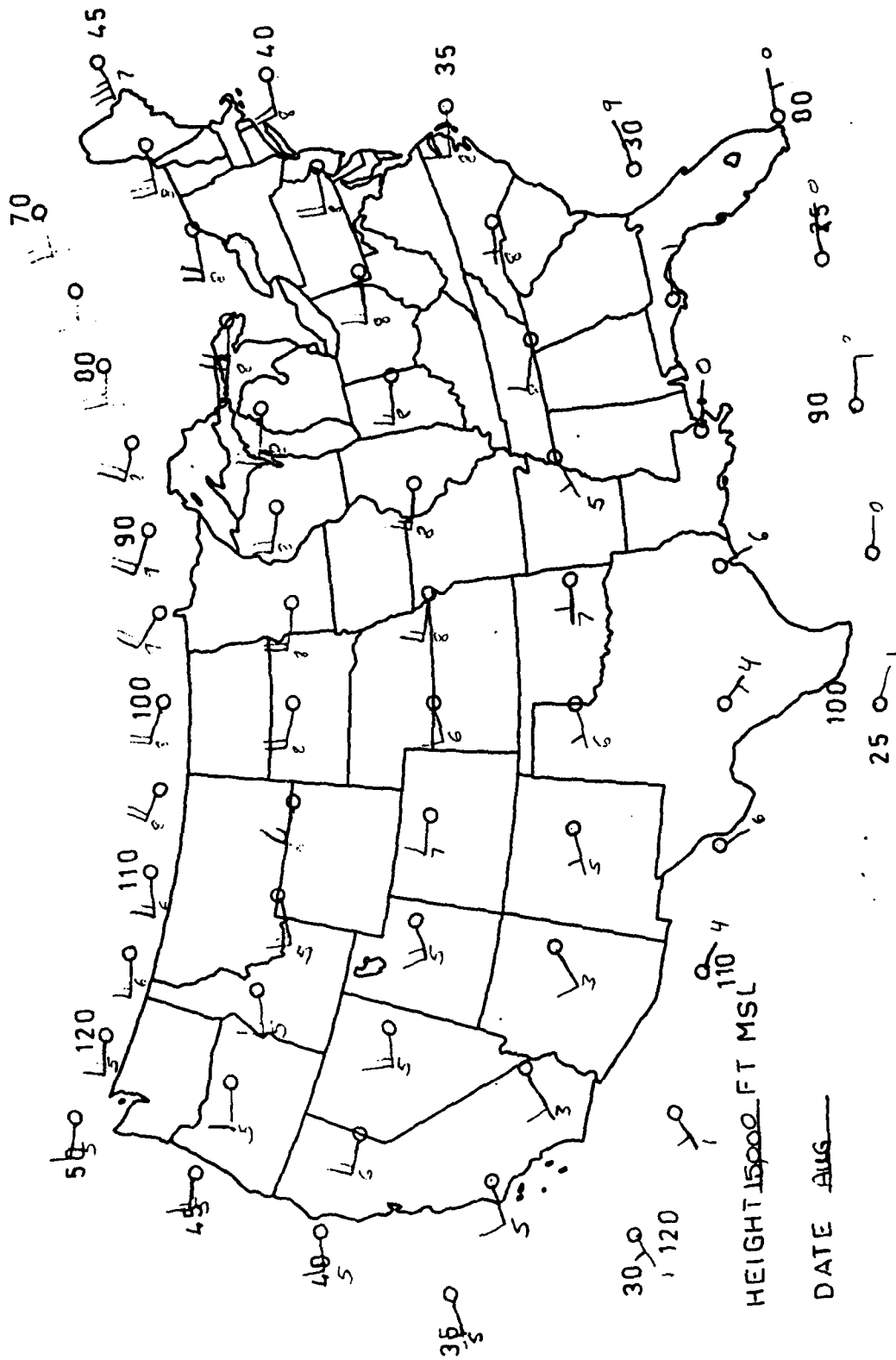
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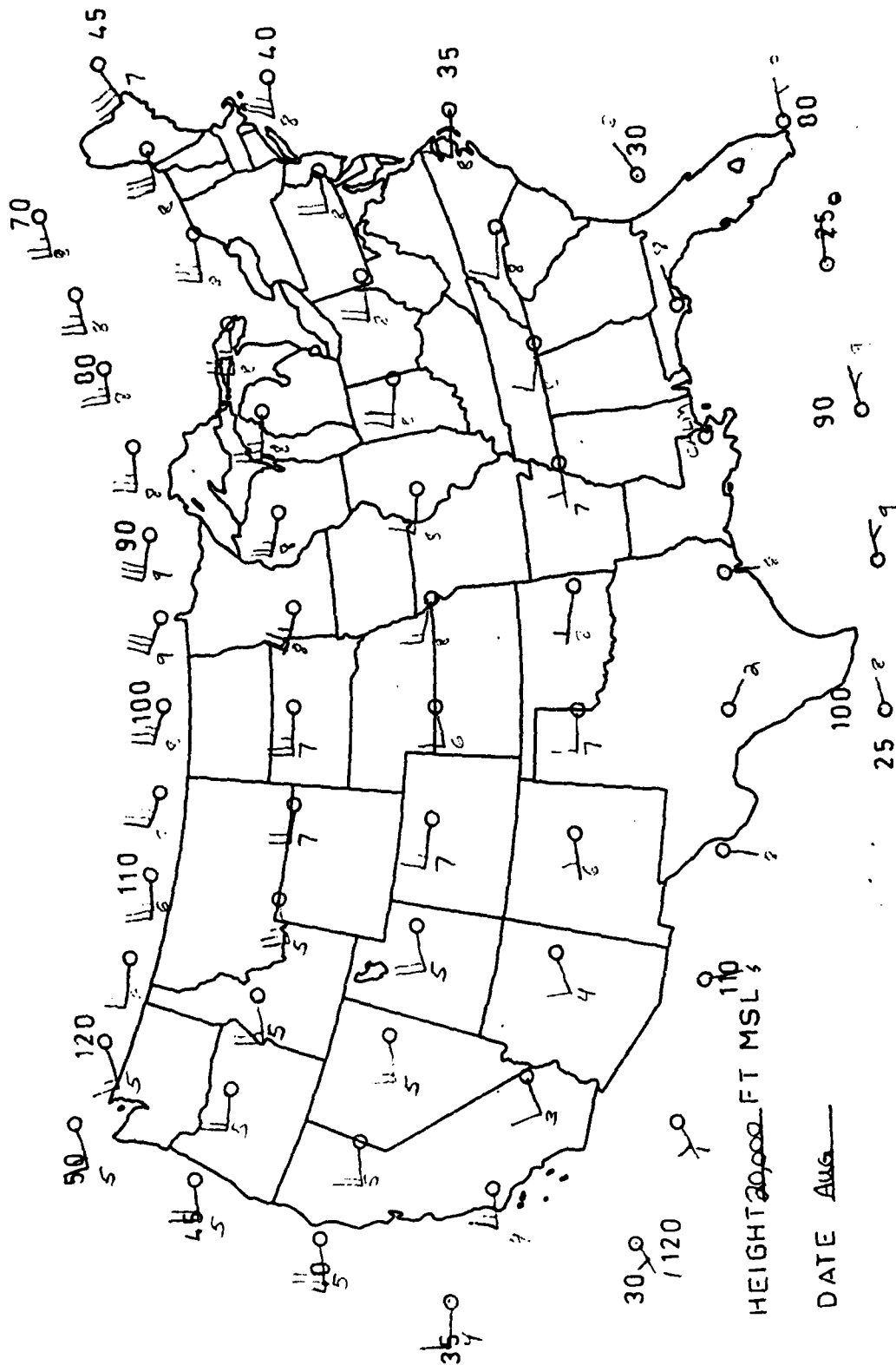
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AUGUST, 15,000 FEET MSL

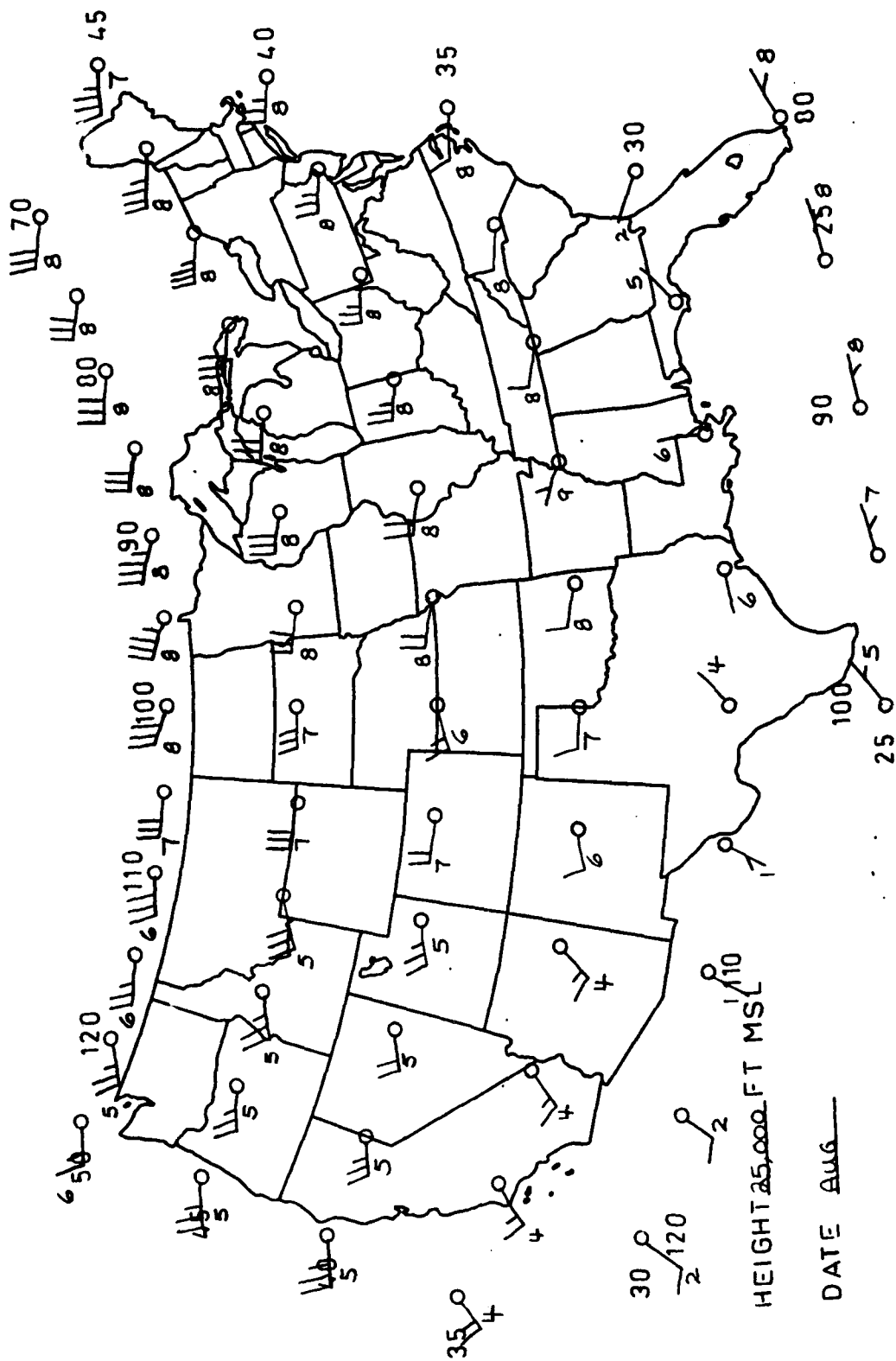


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AUGUST, 25,000 FEET MSL



HEIGHT 3000 FT MSL

DATE AUG

DATE AUG

HEIGHT ~~30,000~~ FT MSL

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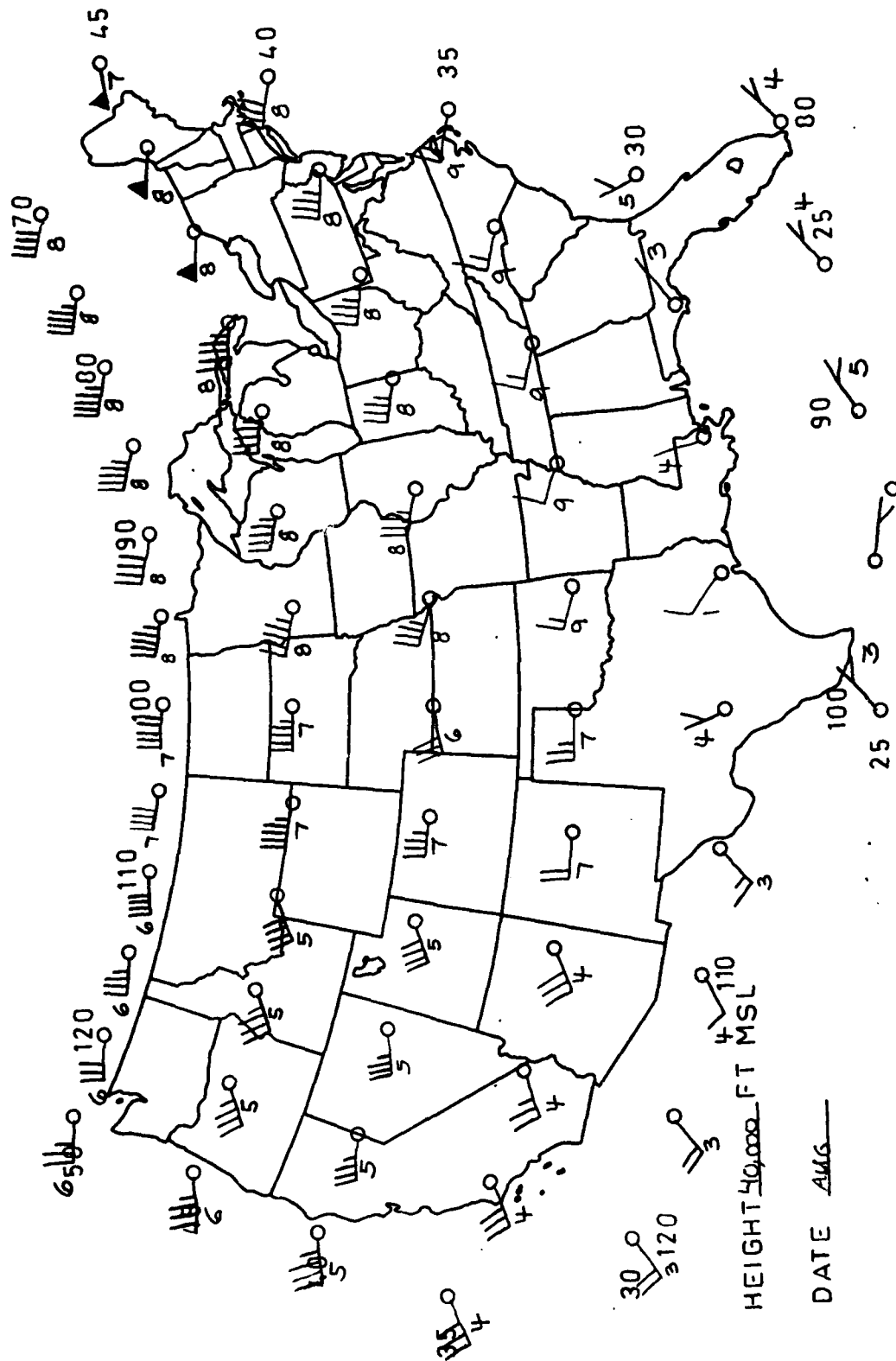
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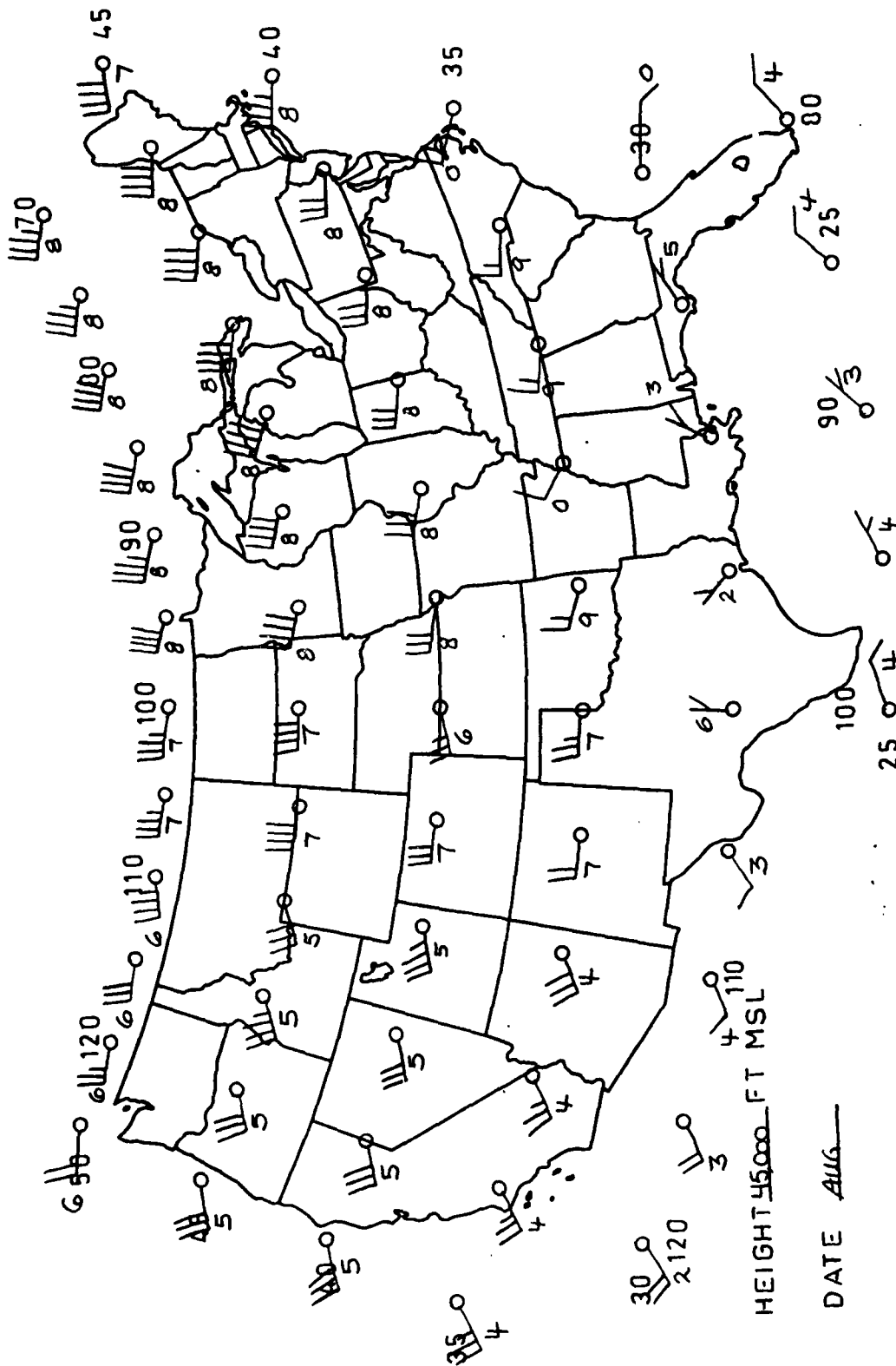
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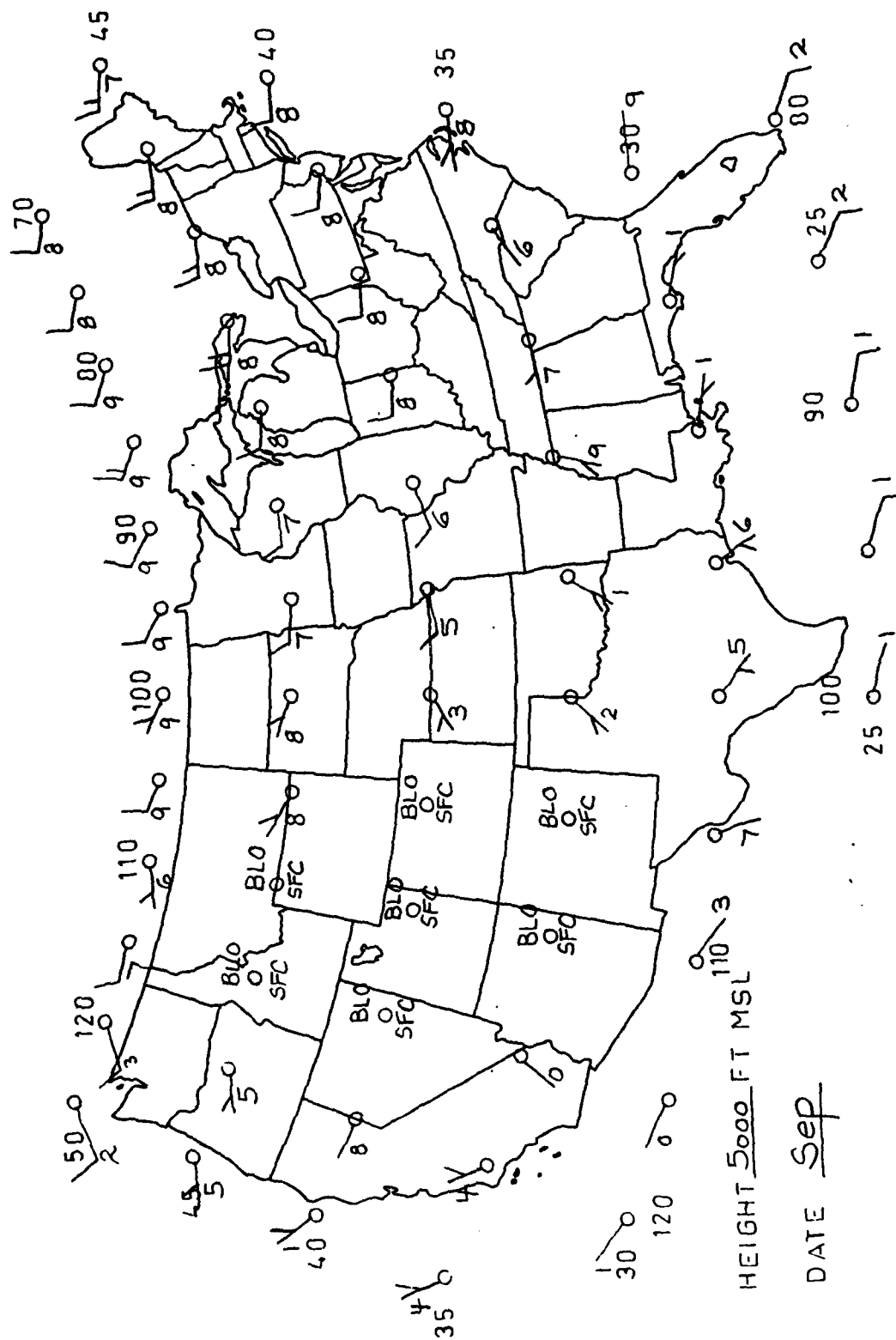
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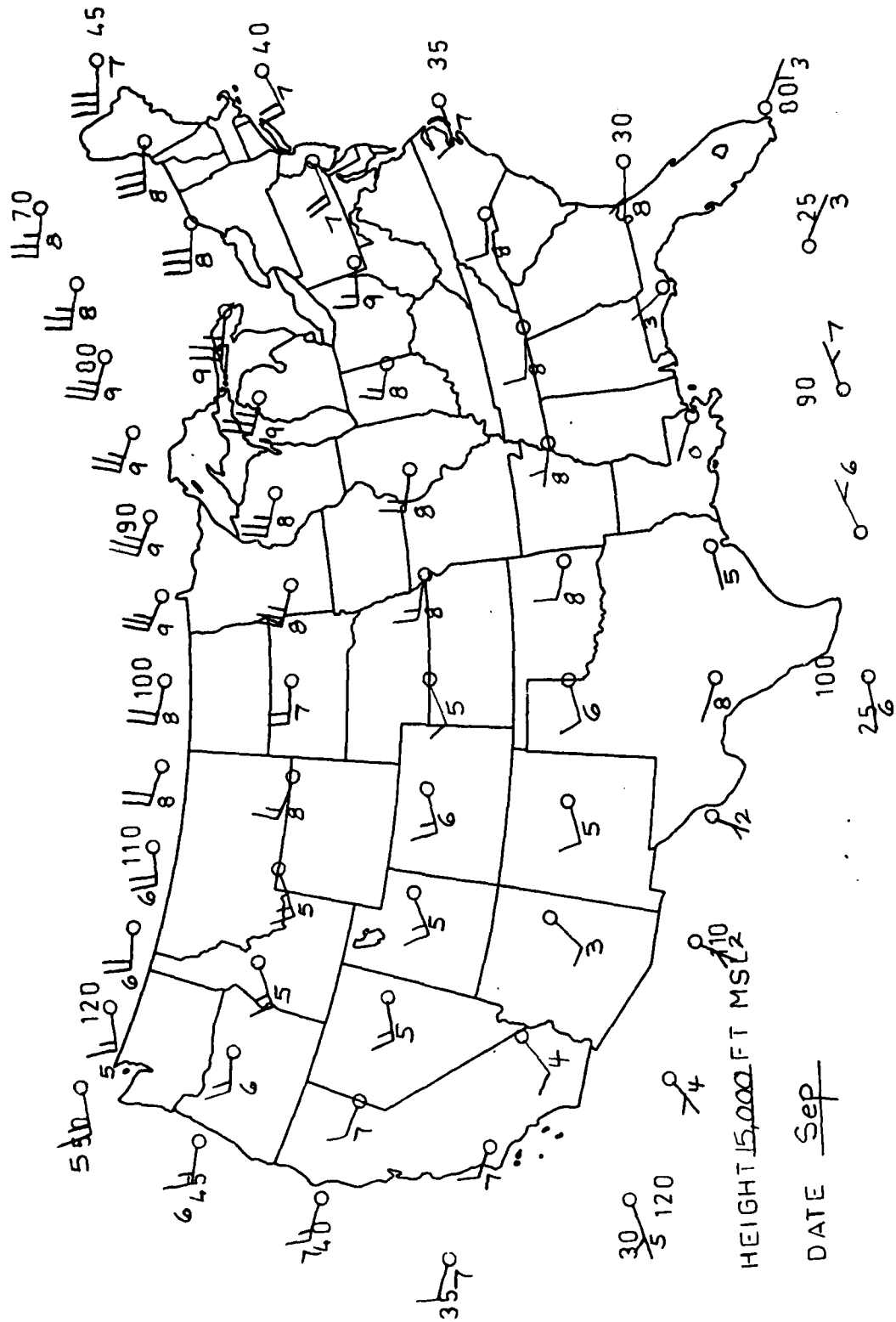
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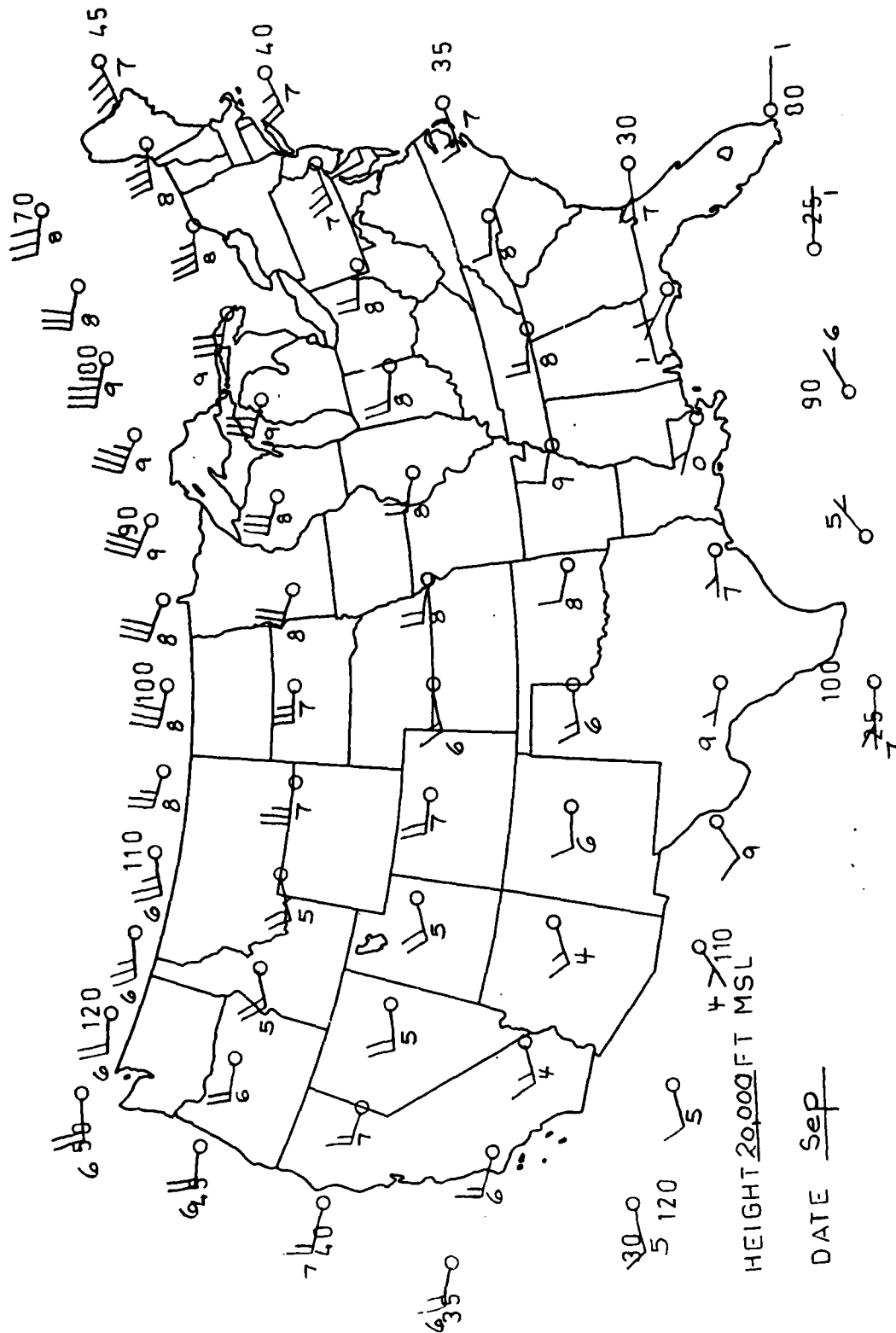
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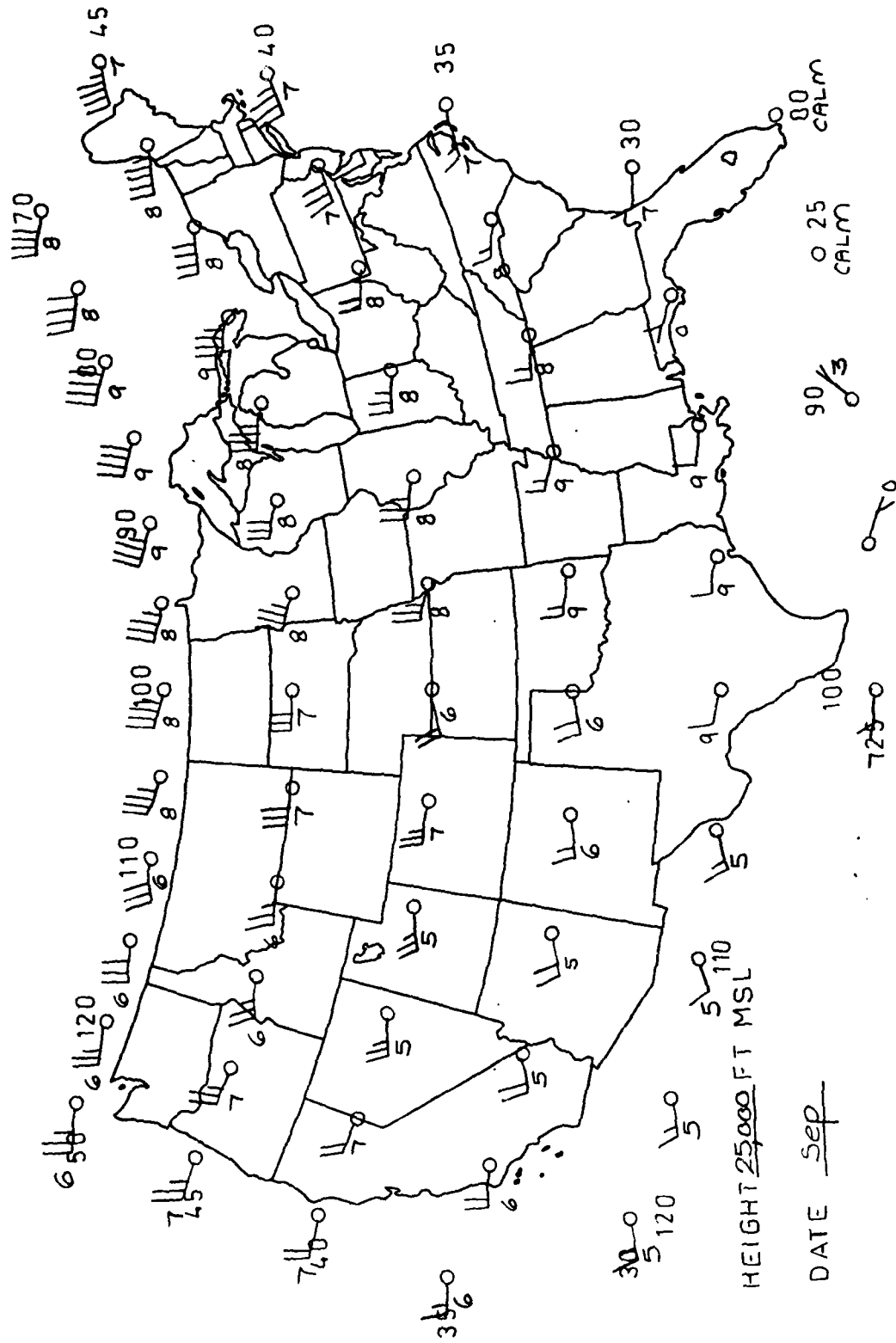




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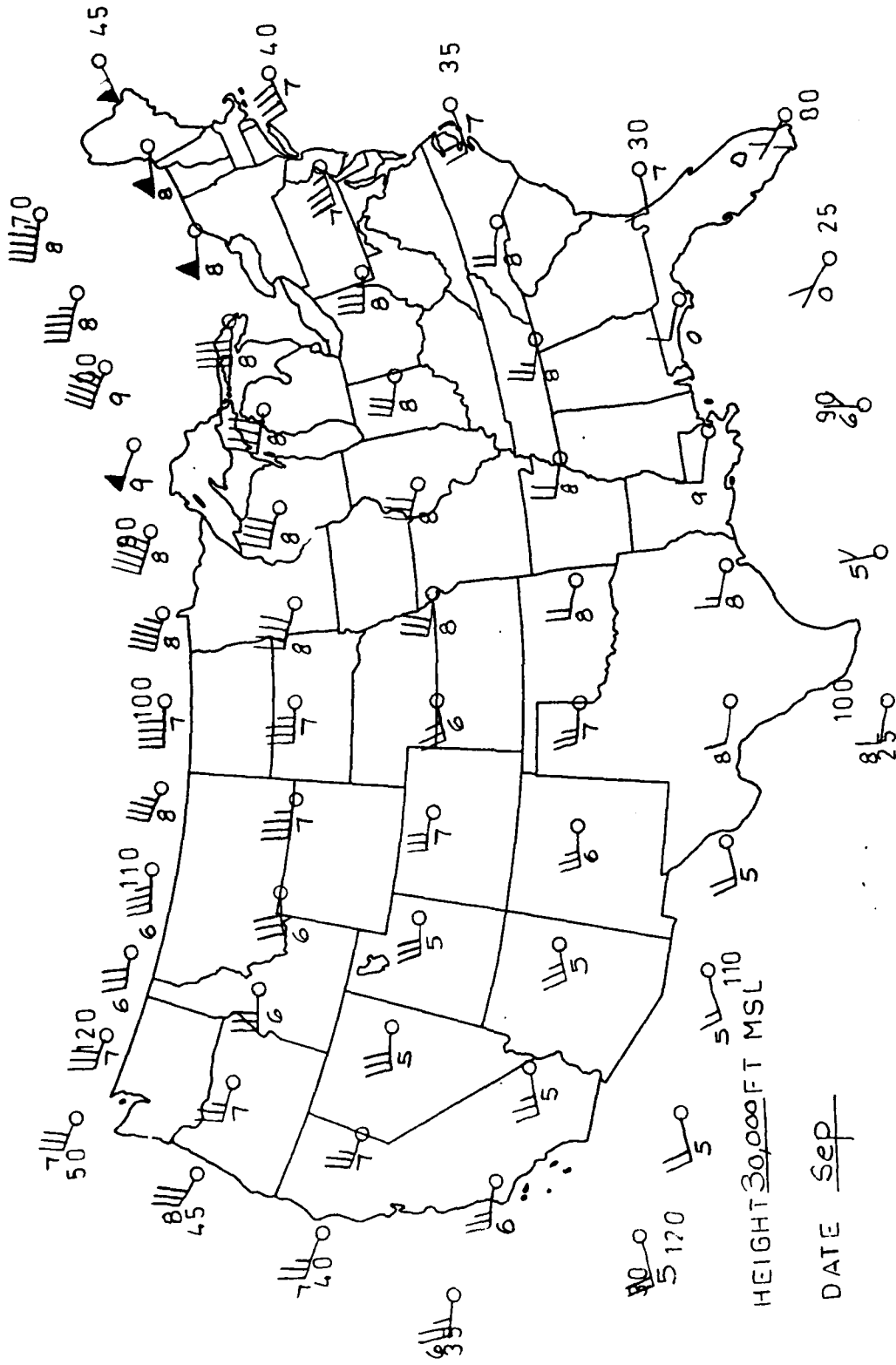
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HEIGHT 25,000 FT MSL

DATE Sep

SEPTEMBER, 30,000 FEET MSL



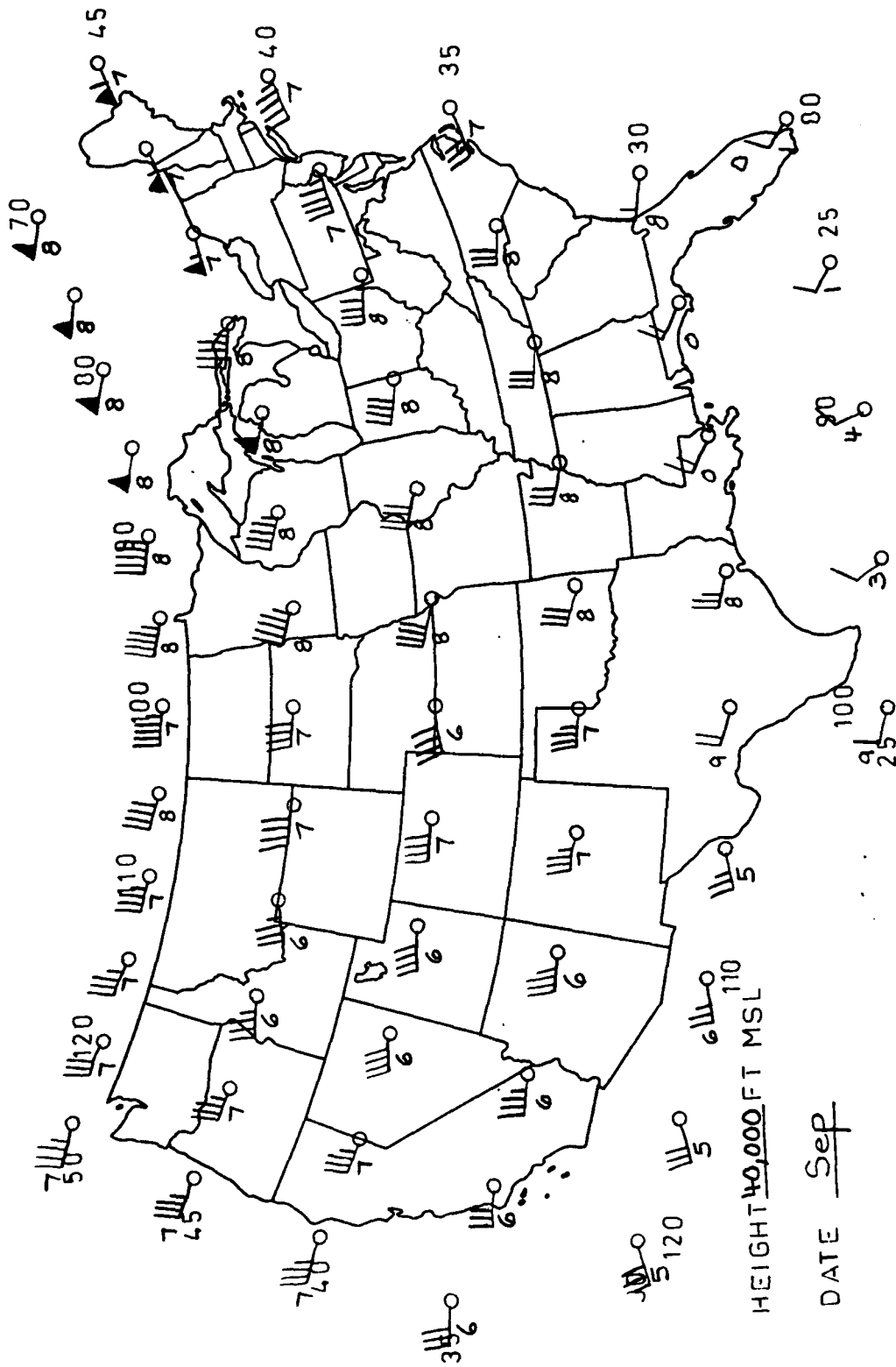
HEIGHT 35,000 FT MSL

DATE Sep

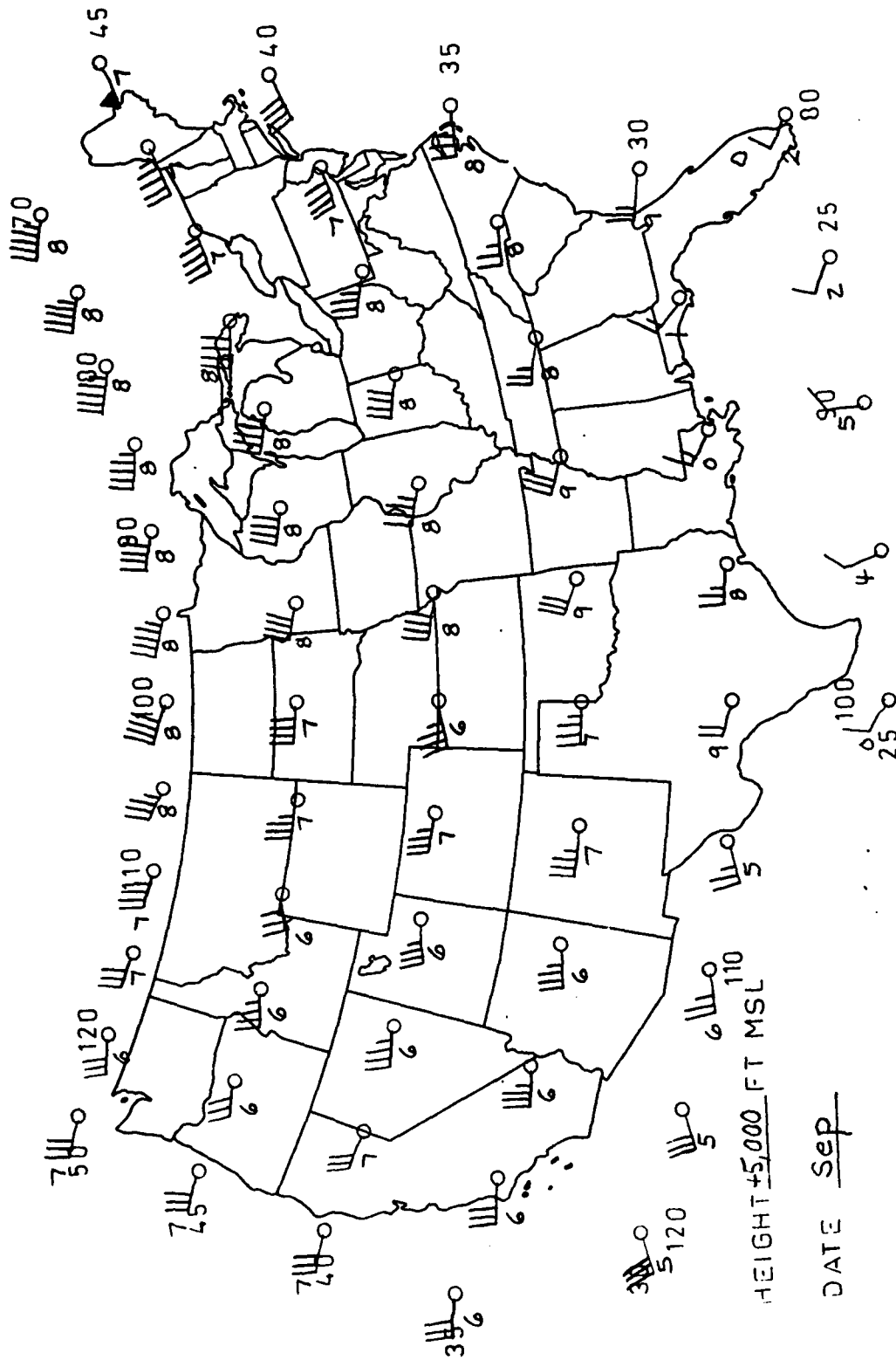
HEIGHT 35,000 FT MSL

DATE SEP

SEPTEMBER, 40,000 FEET MSL



SEPTEMBER, 45,000 FEET MSL

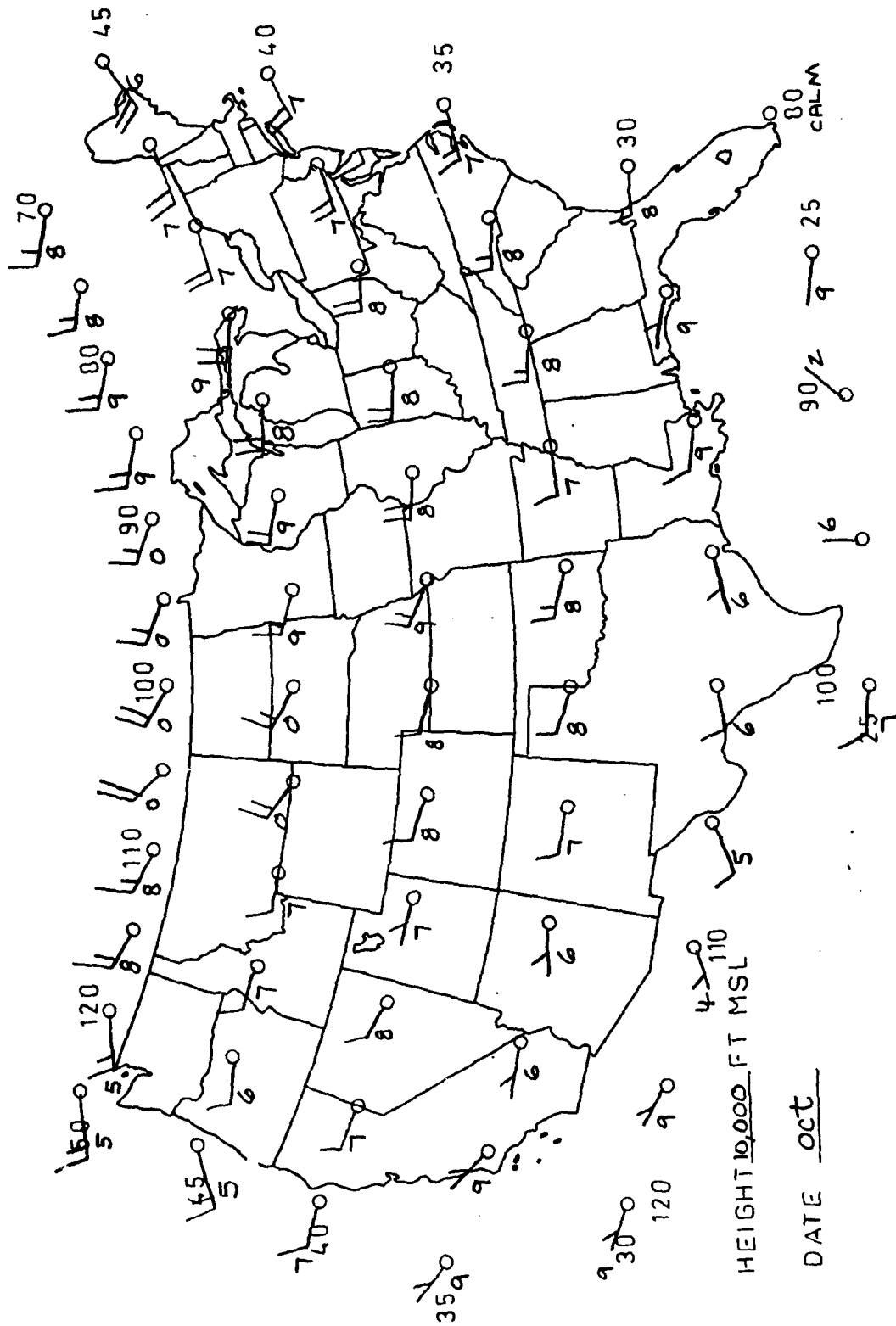


A hand-drawn map of the United States showing weather observations at various stations. The map includes state boundaries and numerous weather symbols such as wind direction and speed indicators, cloud cover percentages, and temperature readings. Some stations are labeled "BLO" (below) and "SFC" (surface). The map is oriented with North at the top.

HEIGHT 5000 FT MSL

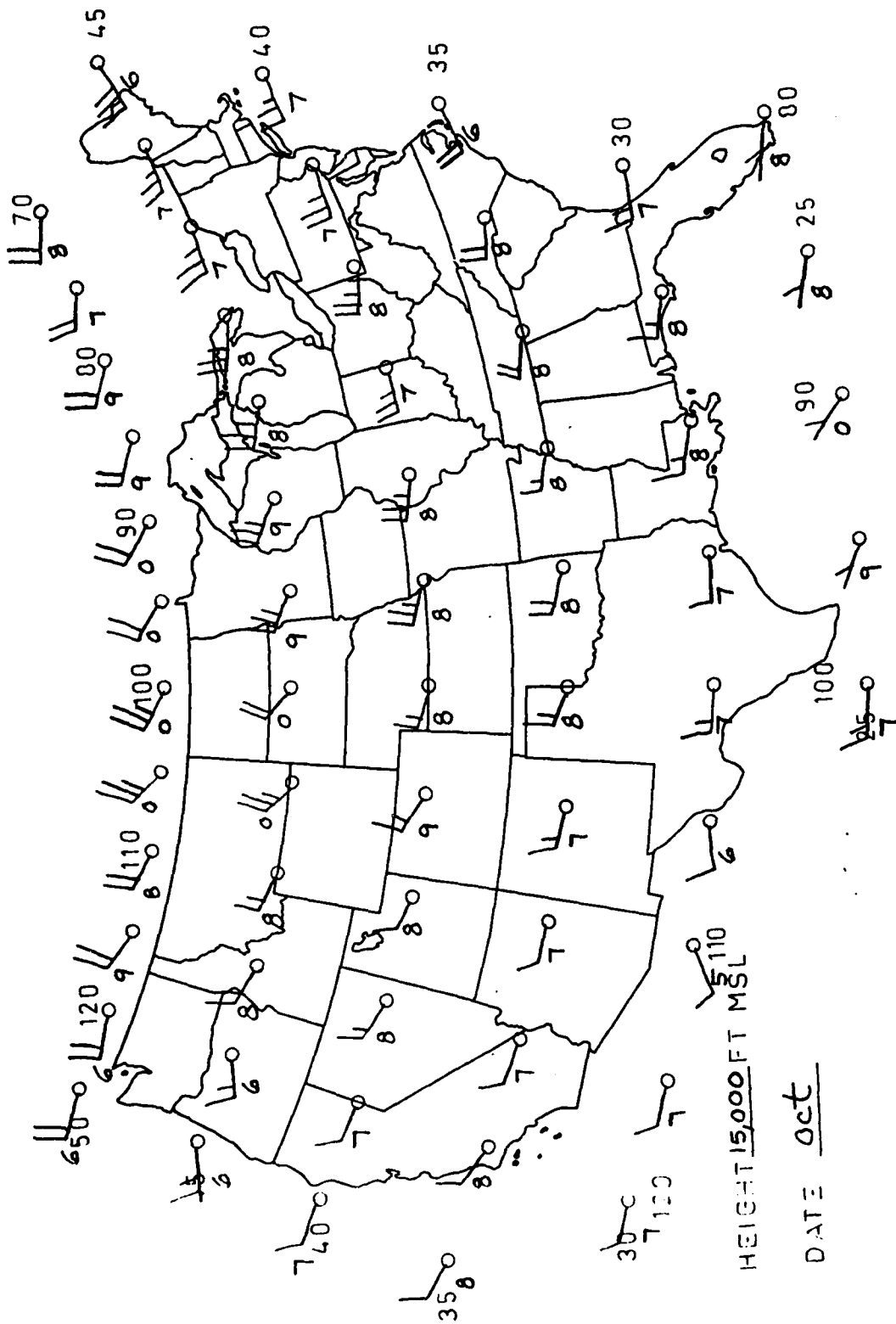
DATE Oct

OCTOBER, 10,000 FEET MSL

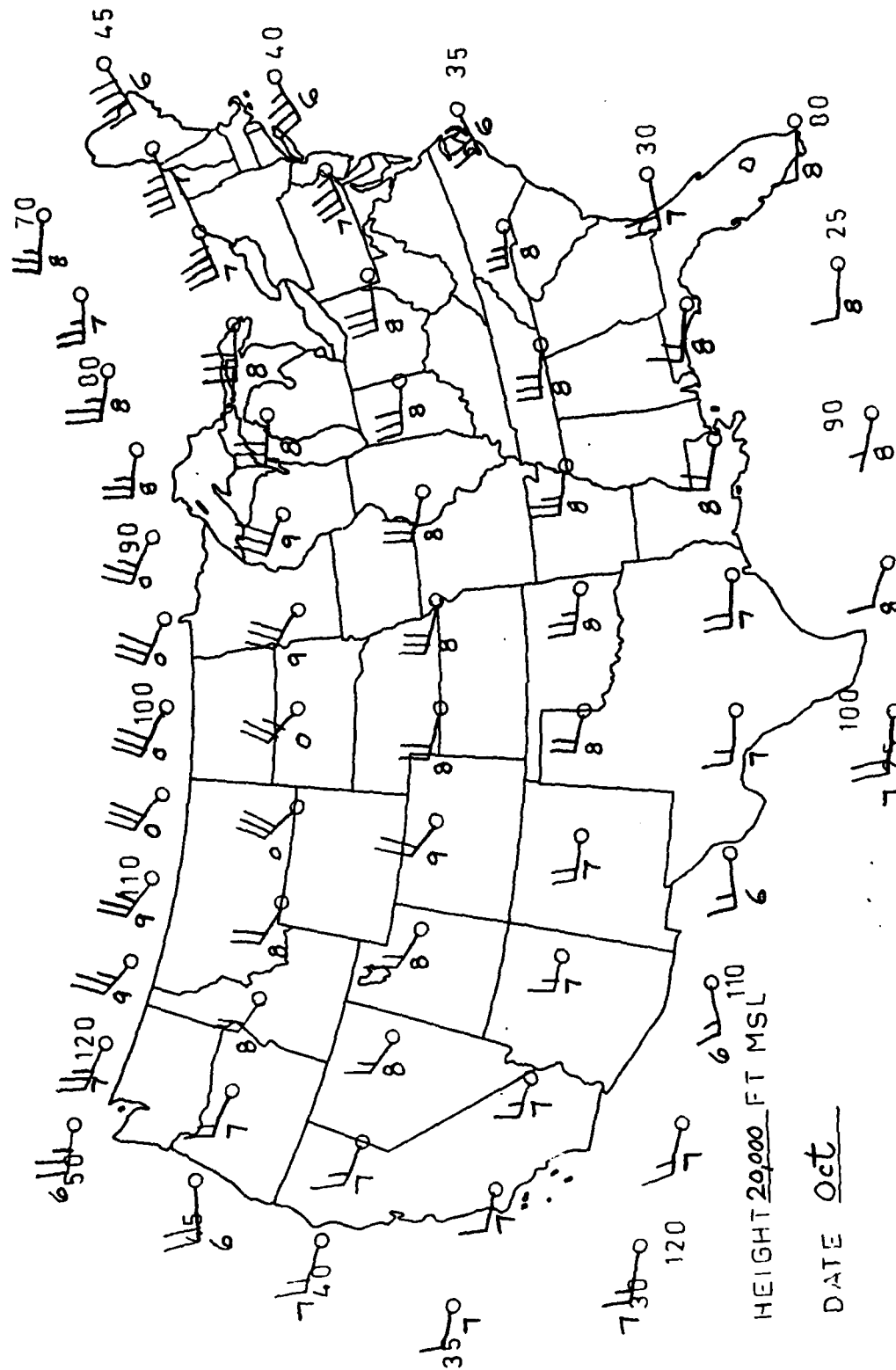




OCTOBER, 15,000 FEET MSL

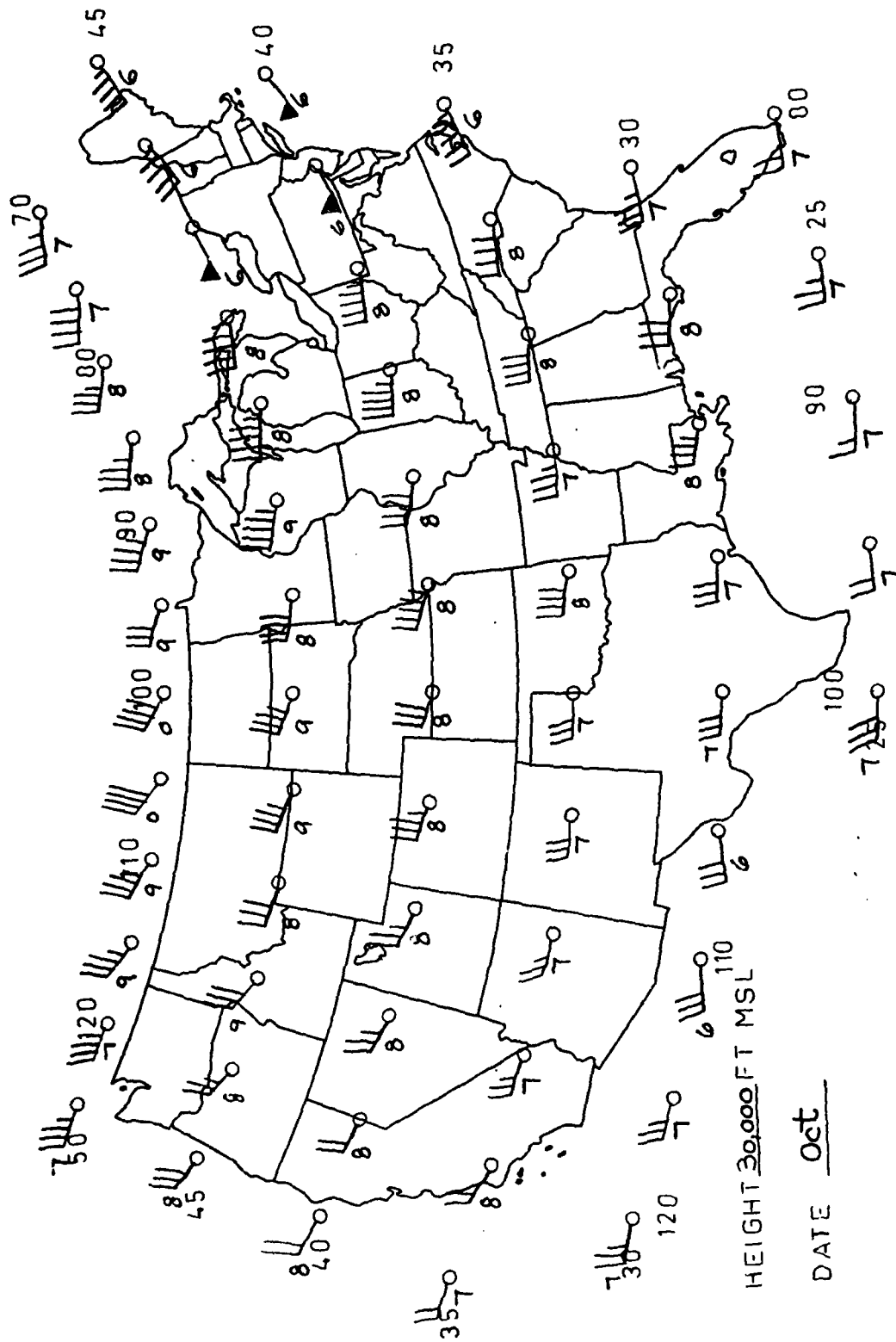


**OCTOBER, 20,000 FEET MSL**

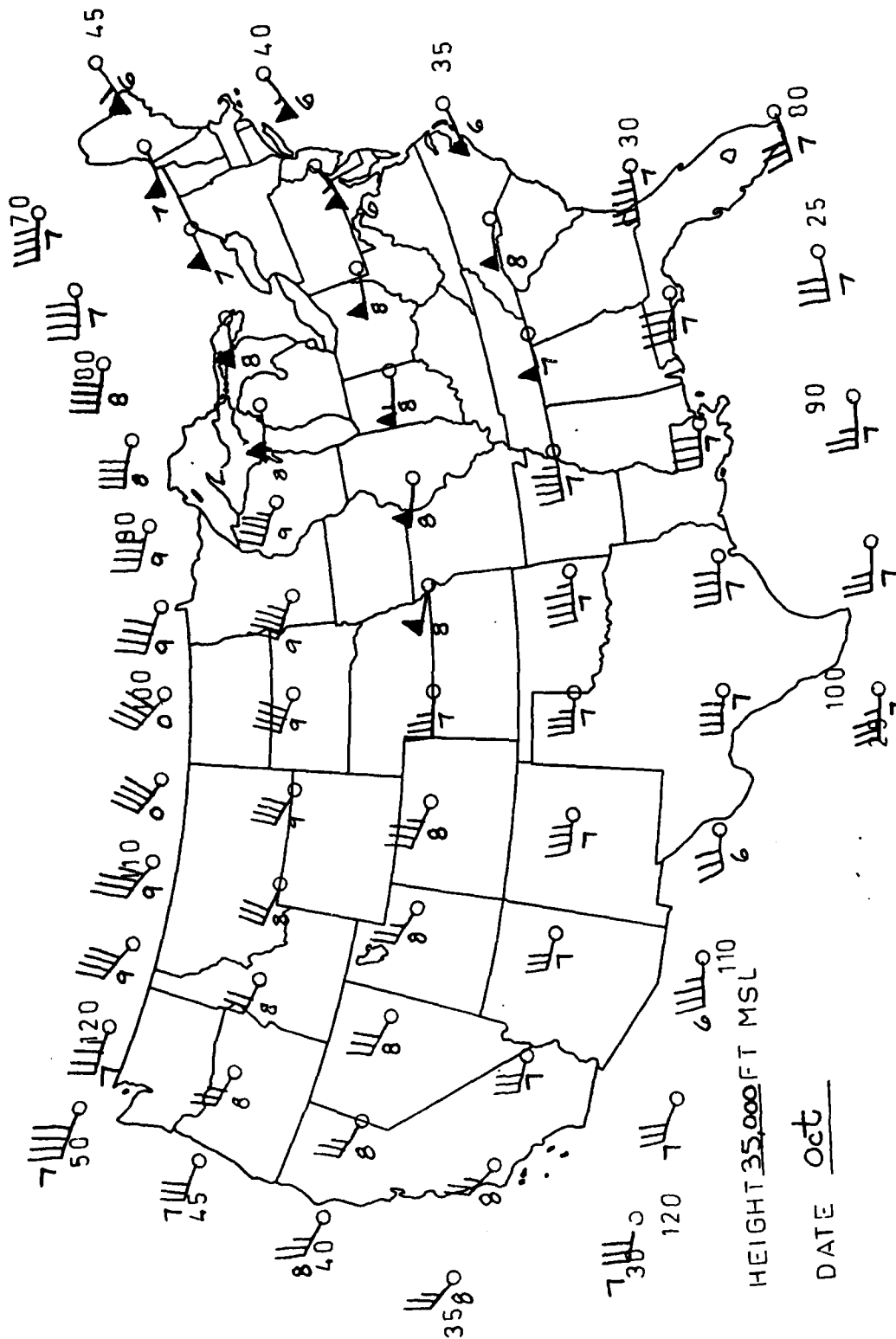




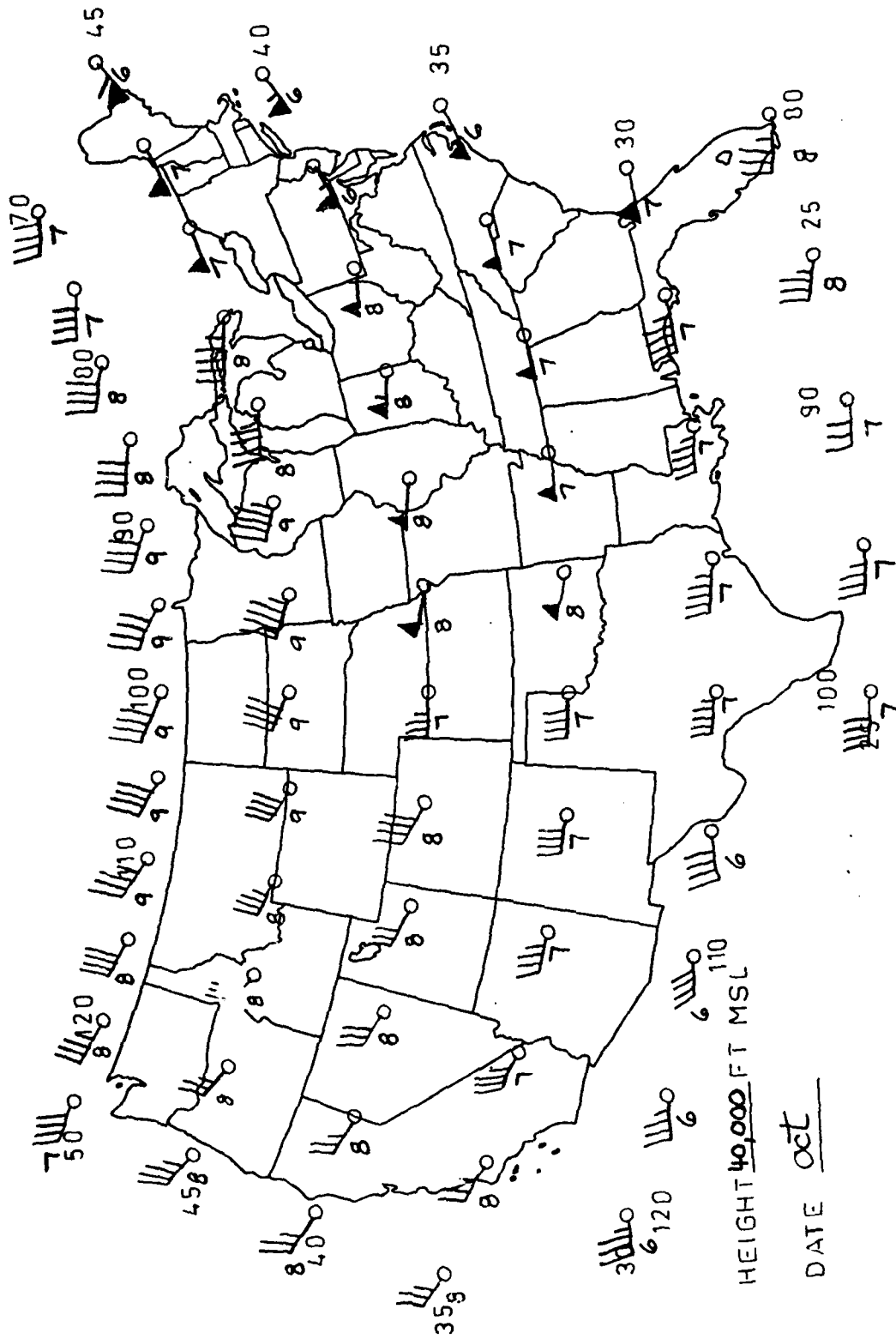
OCTOBER, 30,000 FEET MSL



**OCTOBER, 35,000 FEET MSL**



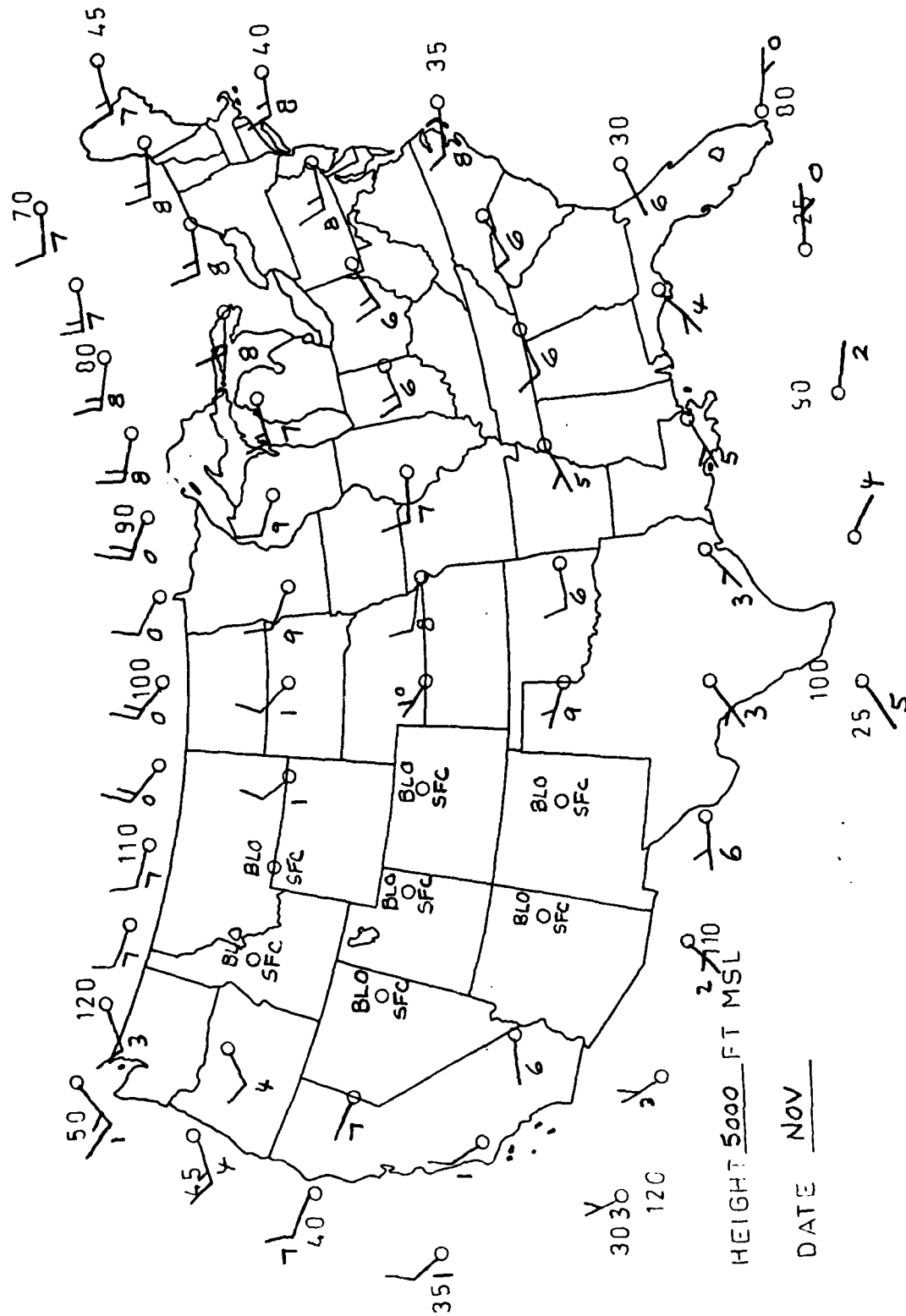
OCTOBER, 40,000 FEET MSL



HEIGHT 45,000 FT MSL

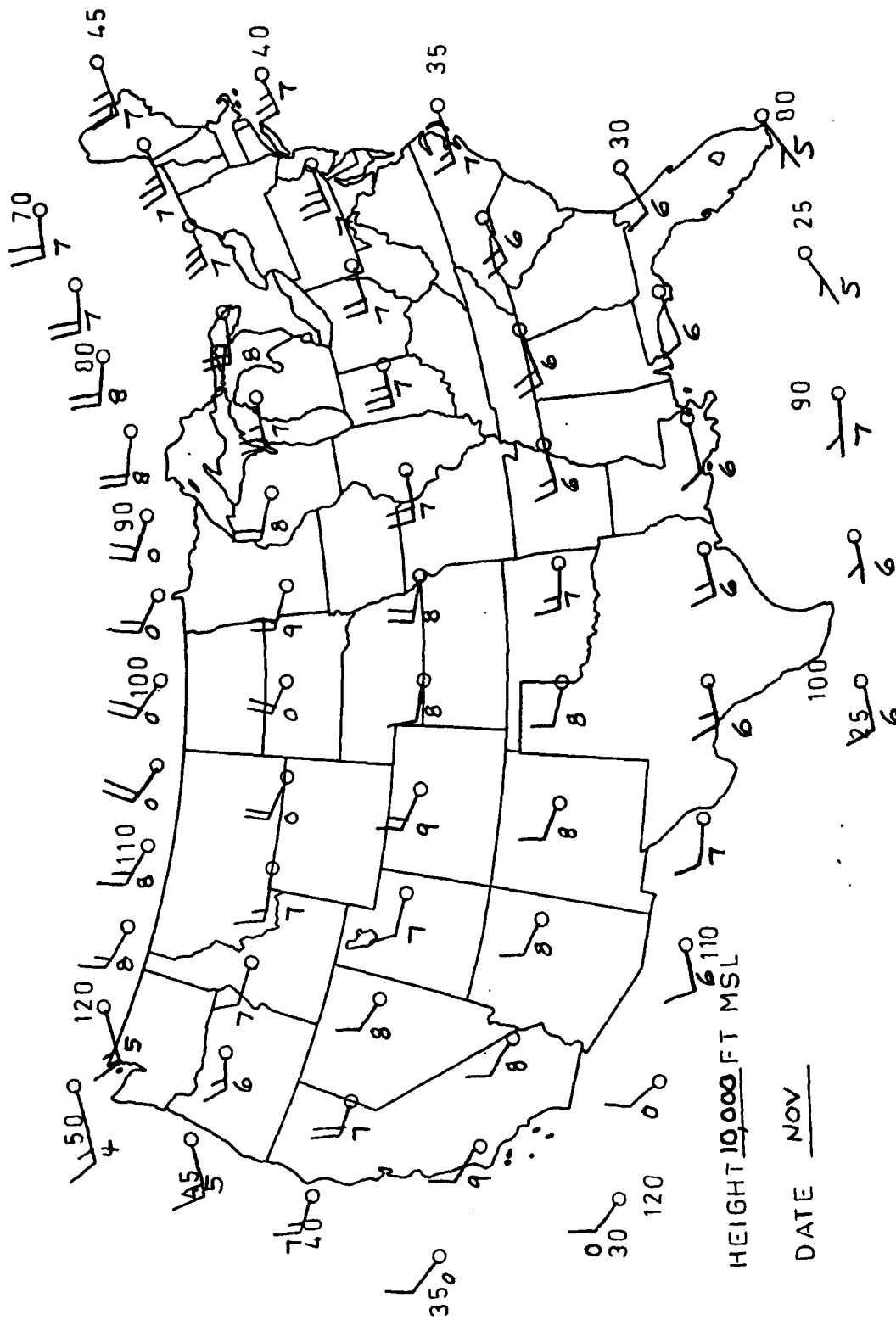
DATE Oct

**NOVEMBER, 5,000 FEET MSL**

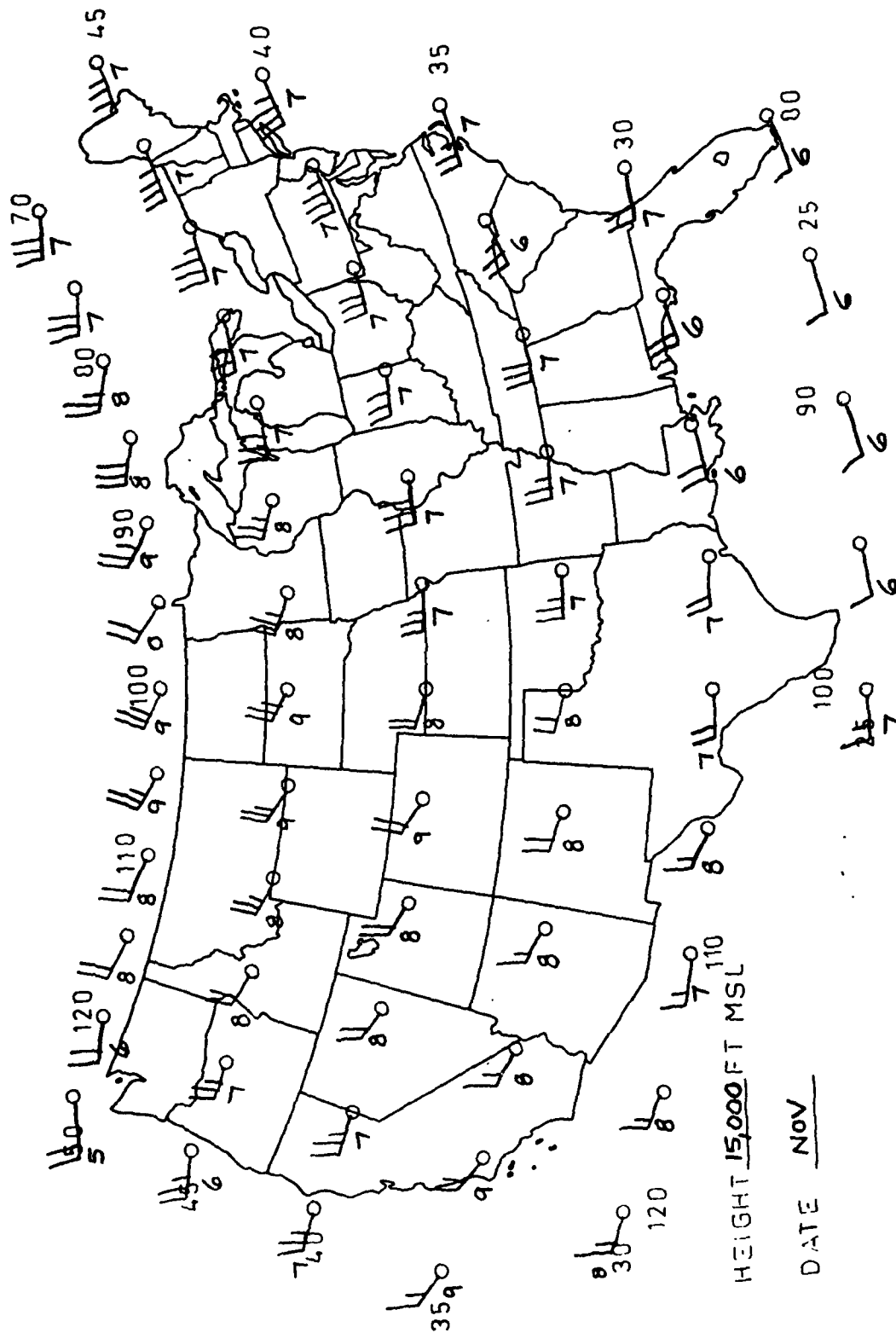




NOVEMBER, 10,000 FEET MSL



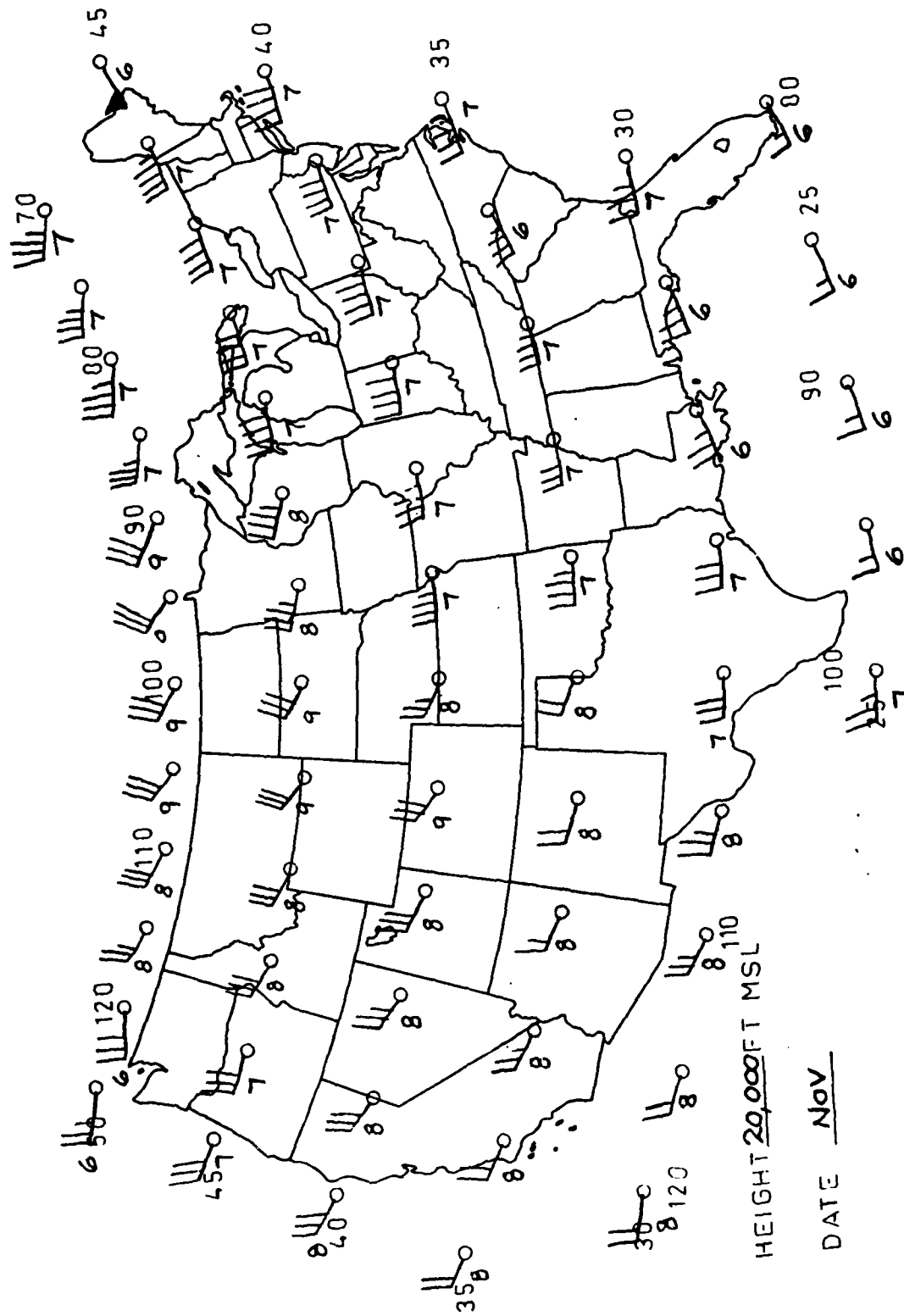
NOVEMBER, 15,000 FEET MSL



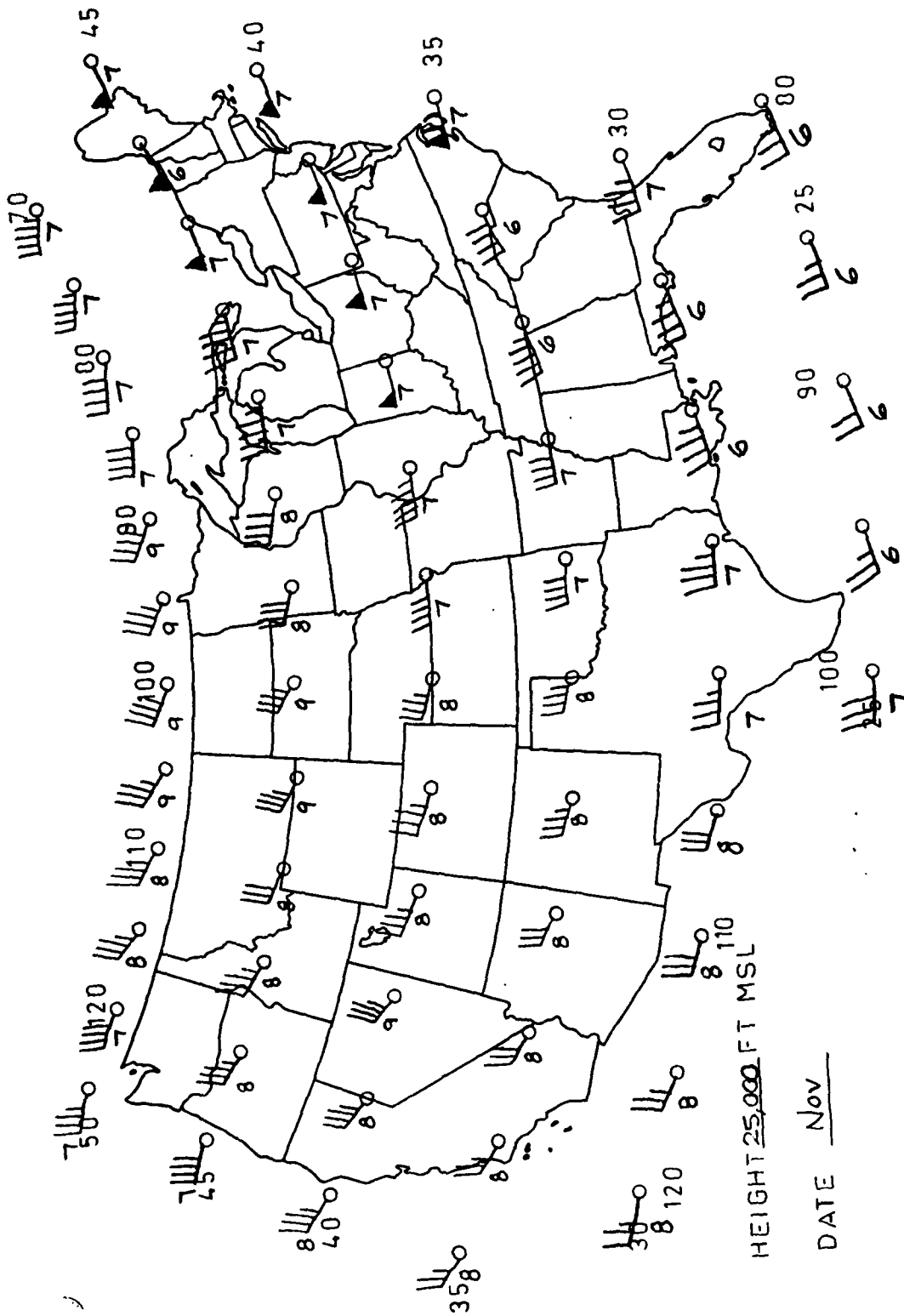
HEIGHT 15,000 FT MSL

DATE NOV

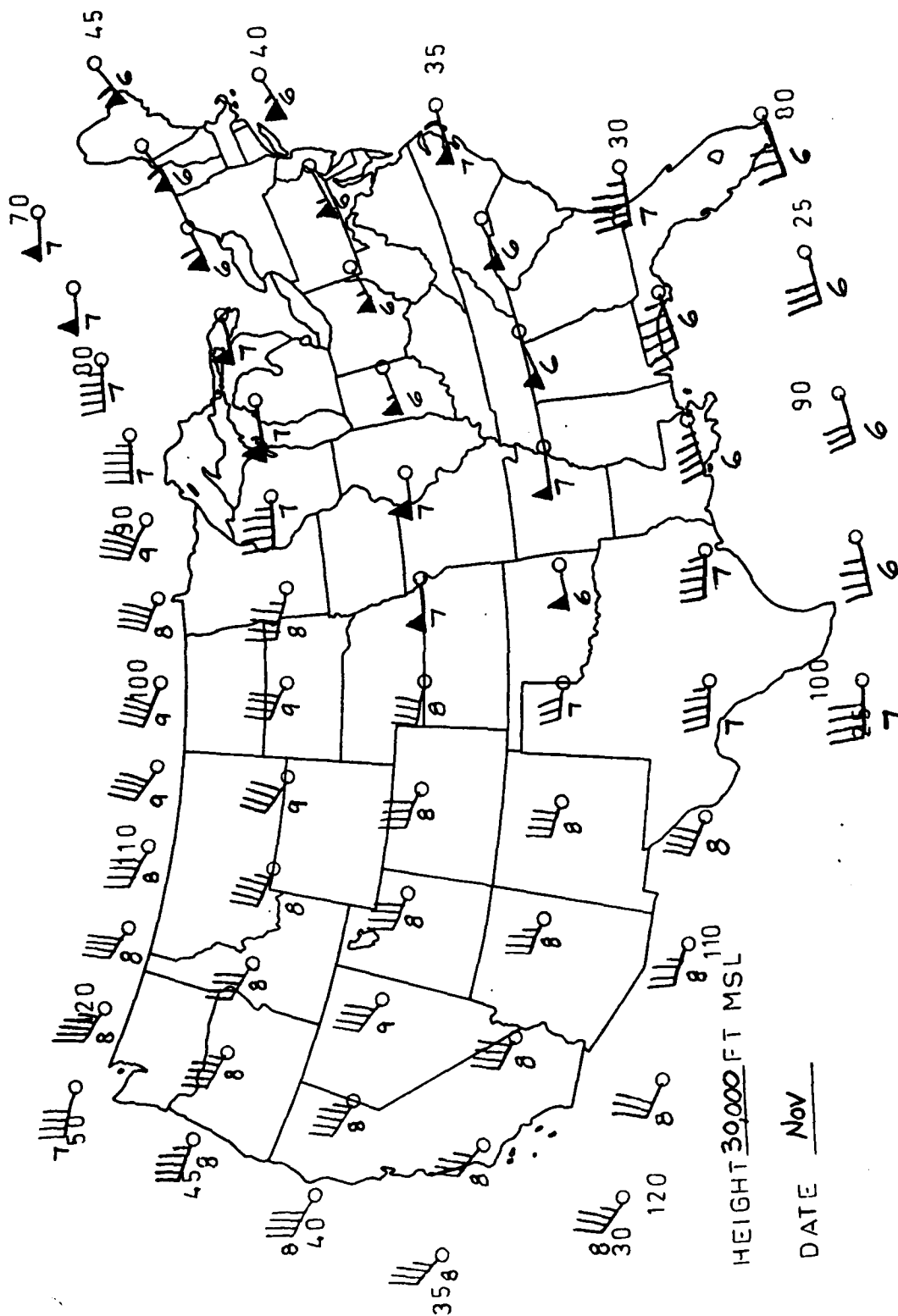
NOVEMBER, 20,000 FEET MSL



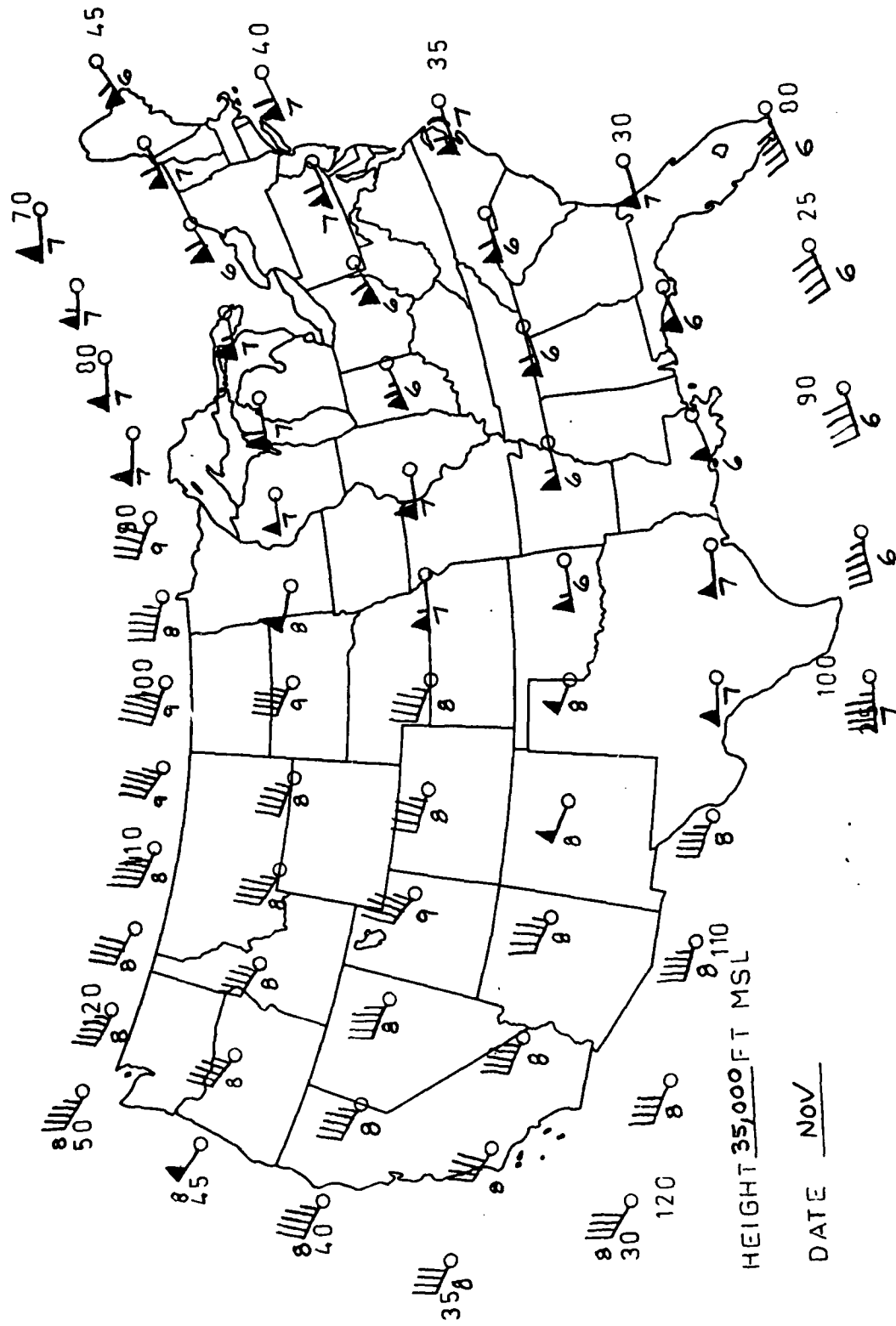
NOVEMBER, 25,000 FEET MSL



NOVEMBER, 30,000 FEET MSL



NOVEMBER, 35,000 FEET MSL



HEIGHT 40,000 FT MSL

DATE Nov

HEIGHT 45,000 FT MSL

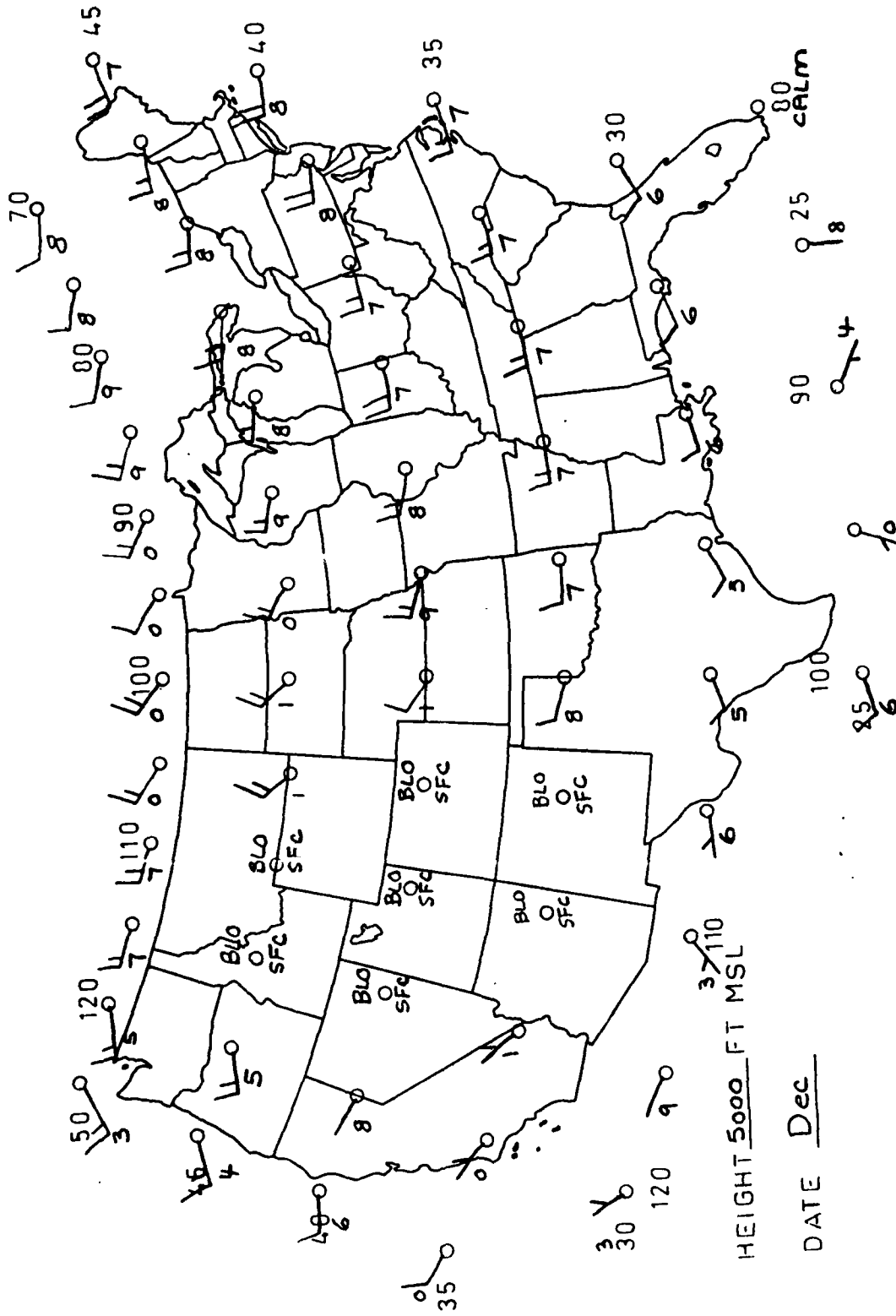
DATE Nov

HEIGHT 45,000 FT MSL

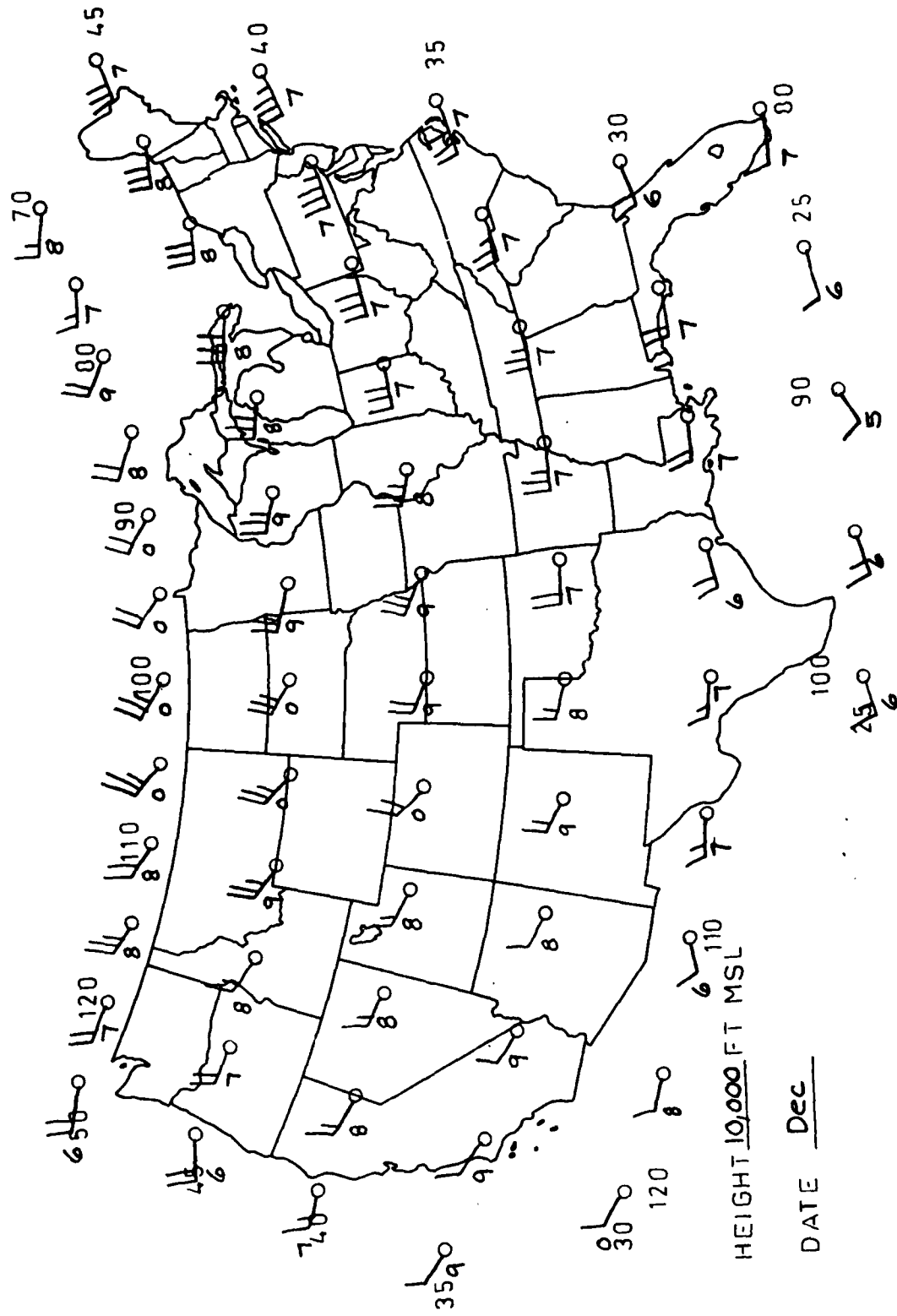
DATE Nov



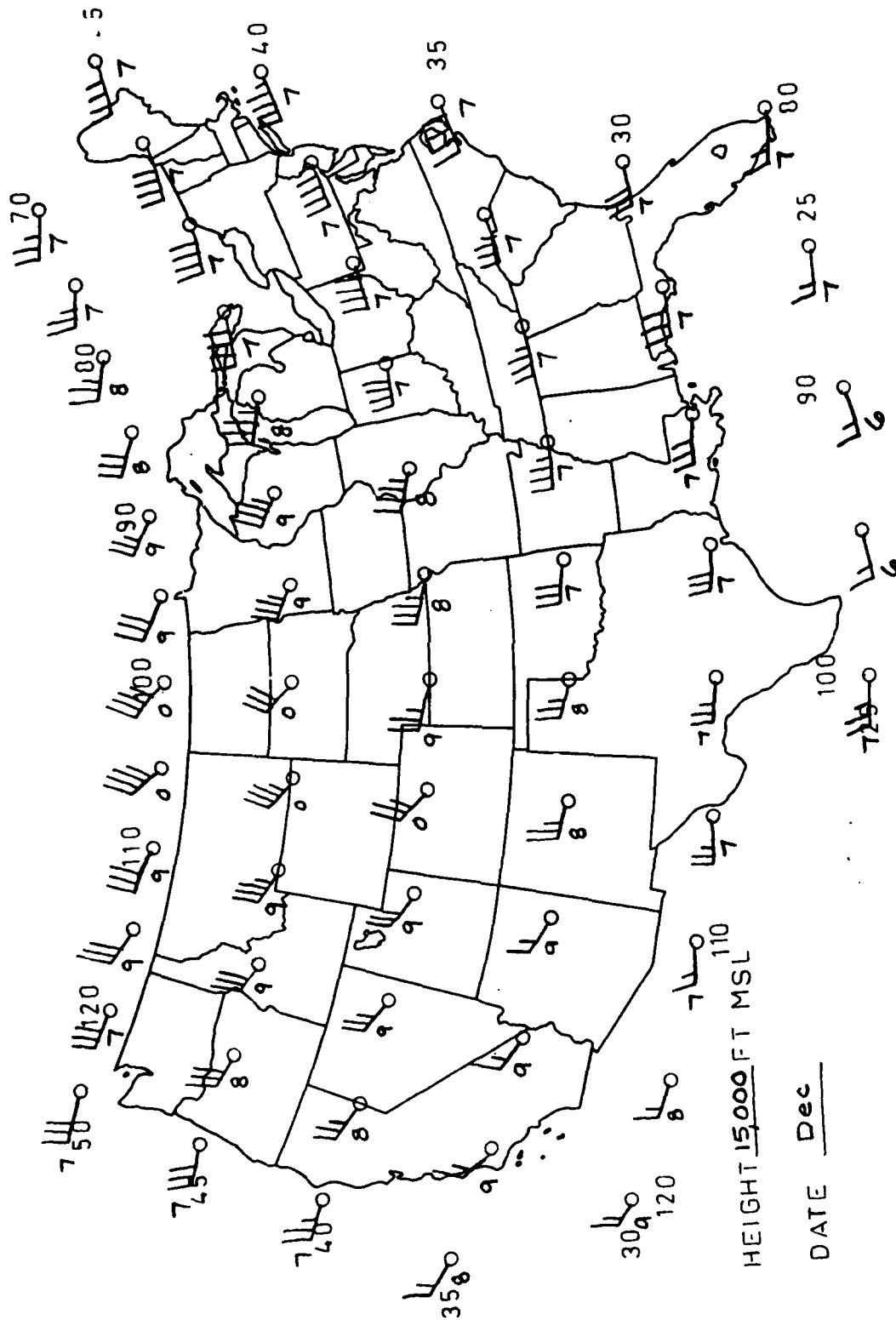
DECEMBER, 5,000 FEET MSL



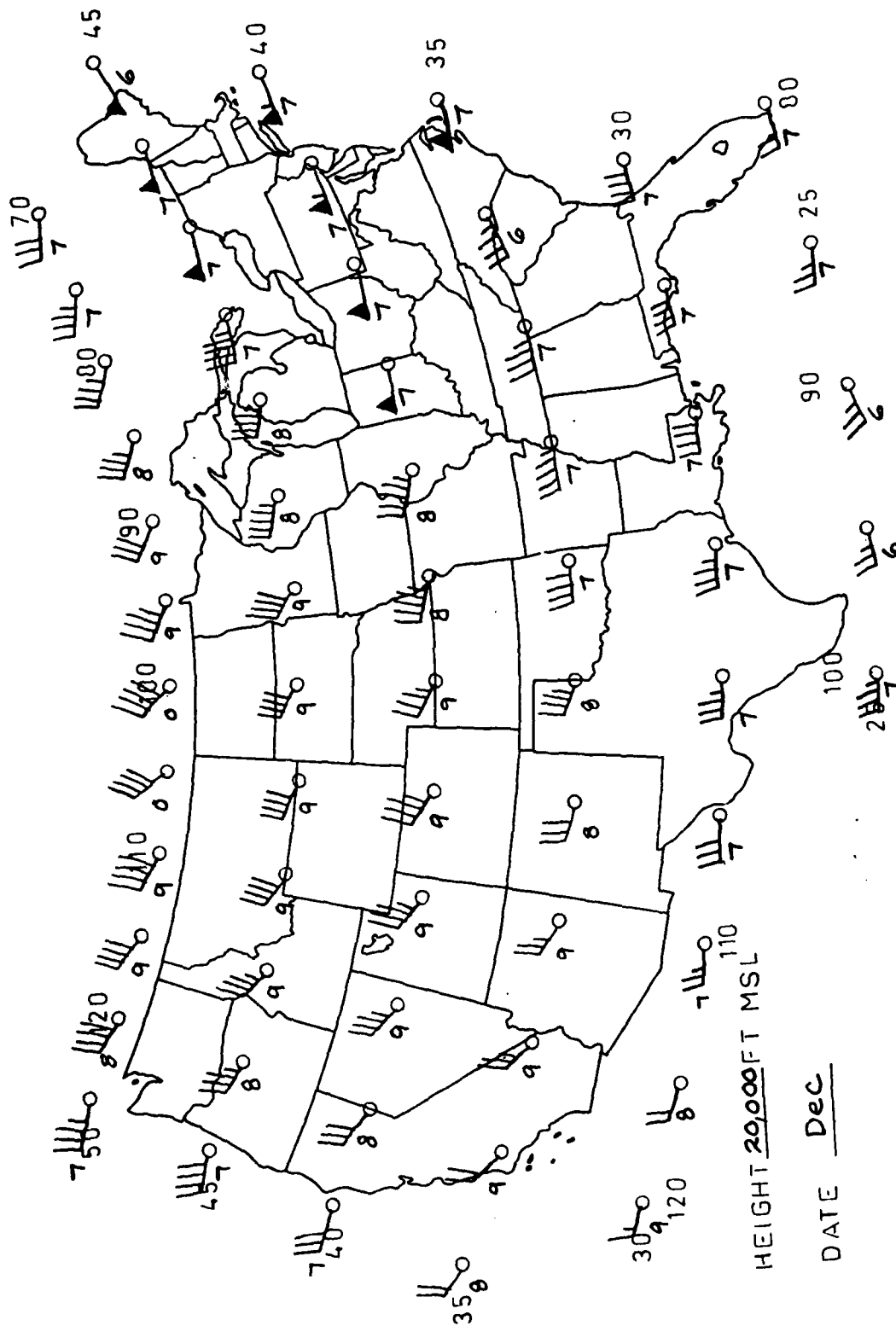
DECEMBER, 10,000 FEET MSL



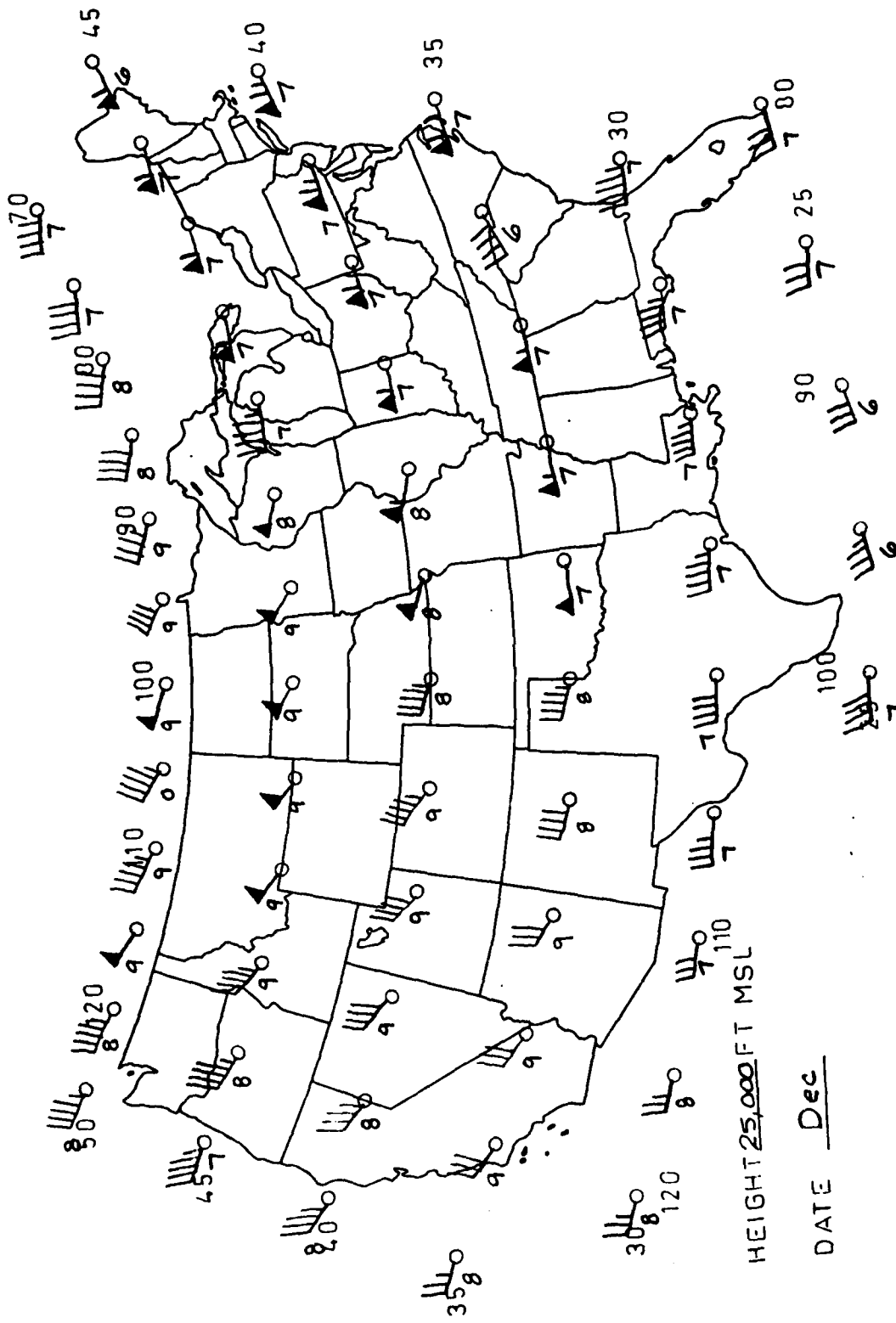
DECEMBER, 15,000 FEET MSL



DECEMBER, 20,000 FEET MSL



DECEMBER, 25,000 FEET MSL



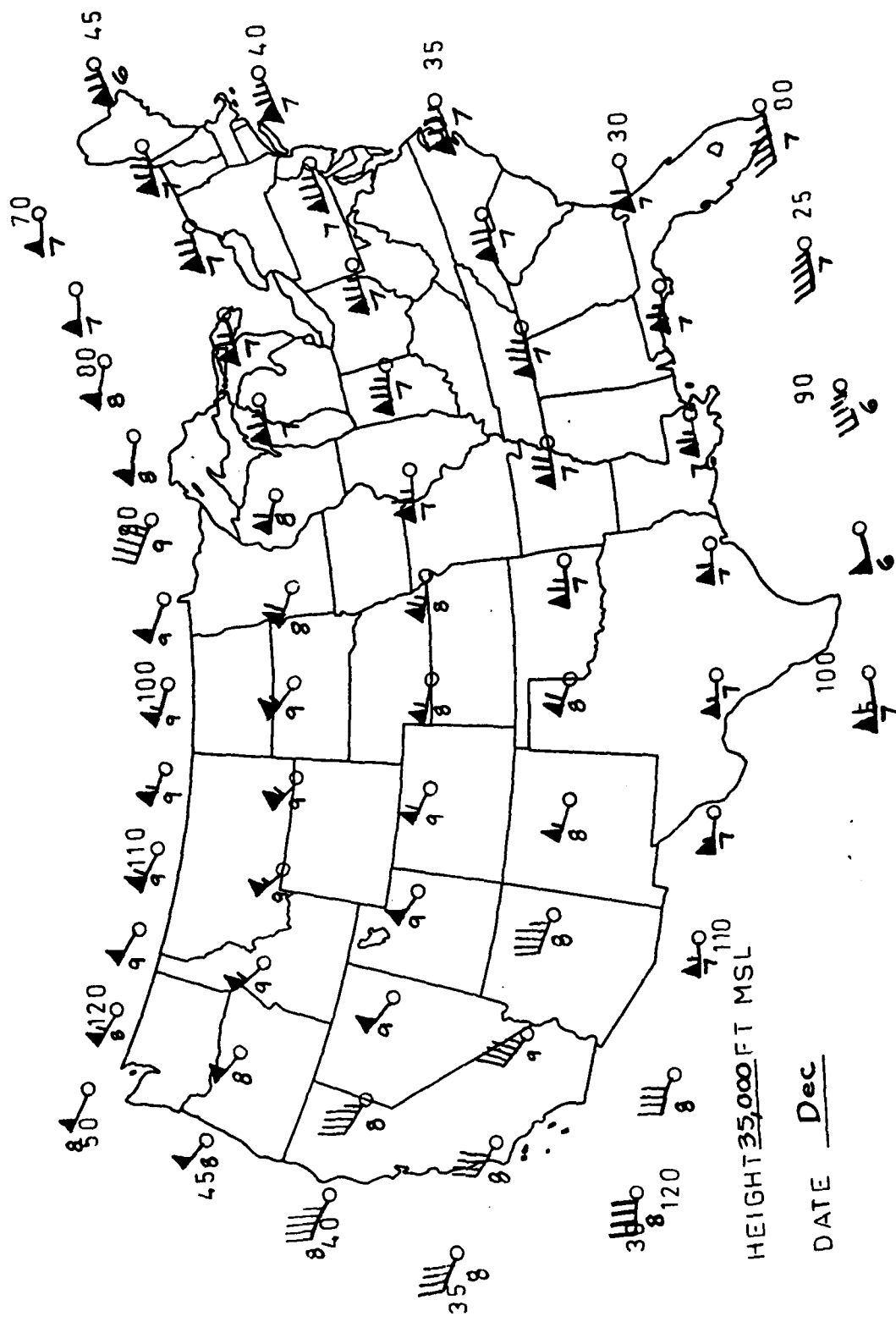
HEIGHT 30,000 FT MSL

DATE Dec

HEIGHT 30,000 FT MSL

DATE Dec

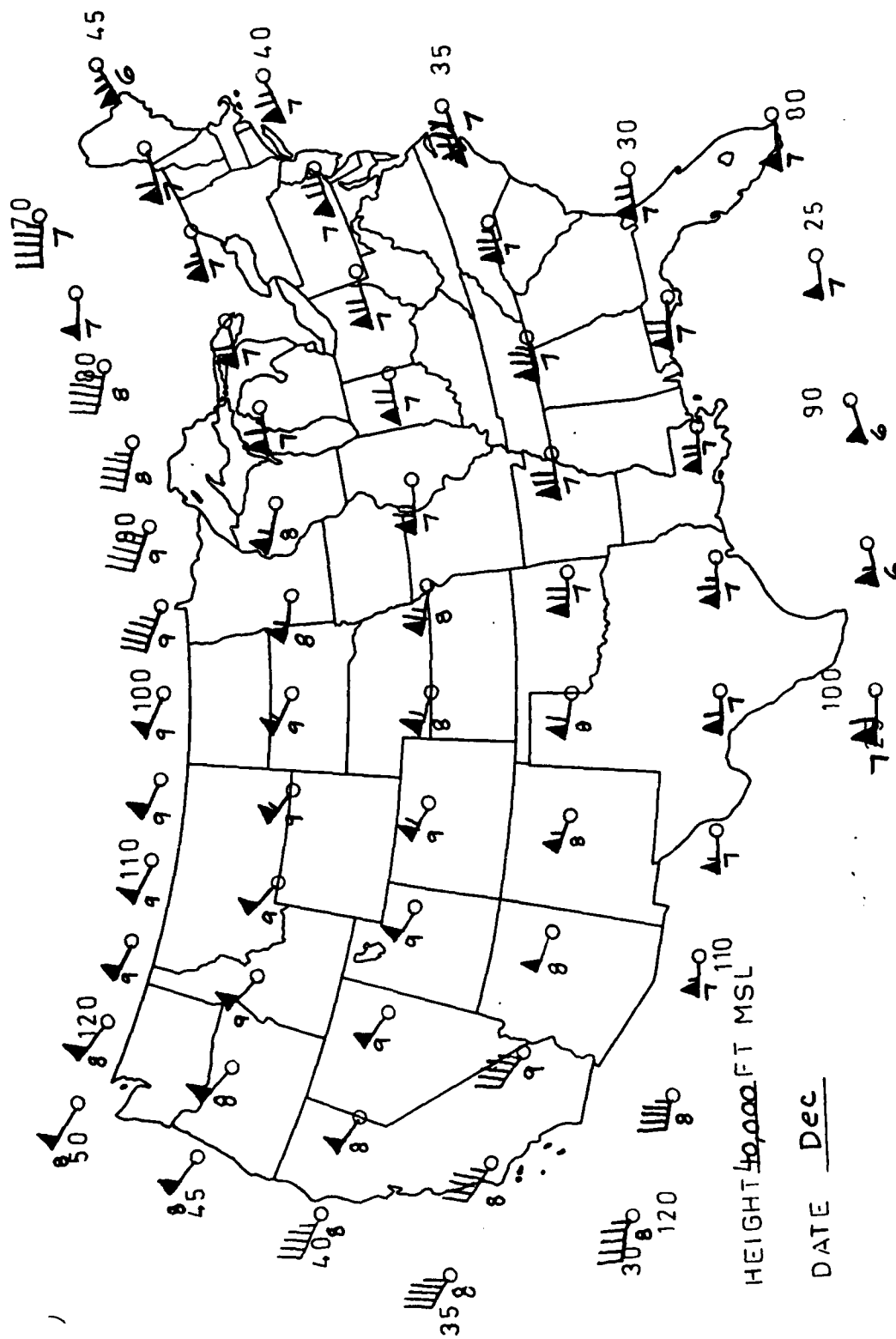
DECEMBER, 35,000 FEET MSL



HEIGHT 35,000 FT MSL

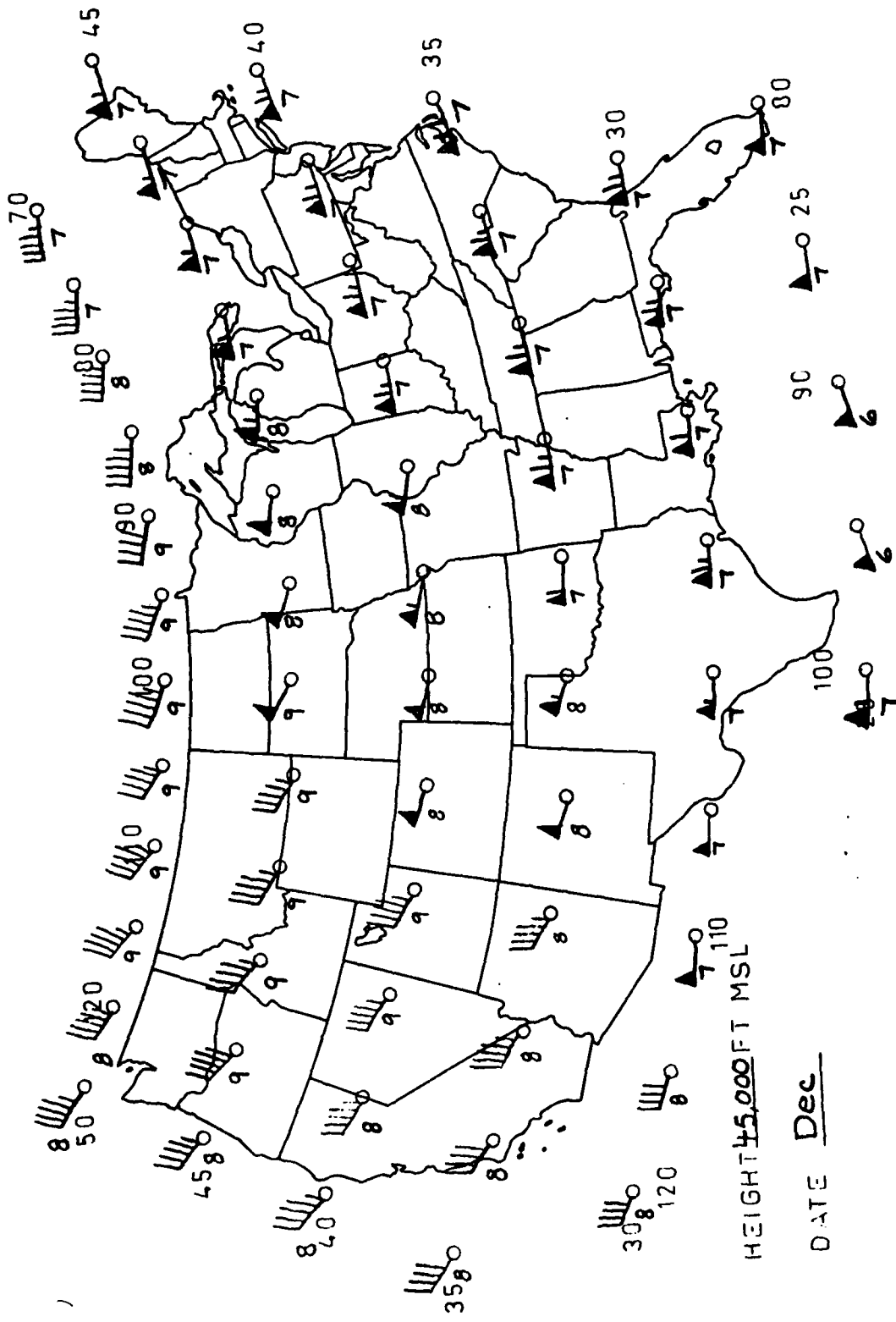
DATE Dec

DECEMBER, 40,000 FEET MSL





DECEMBER, 45,000 FEET MSL



HEIGHT 45,000 FT MSL

DATE Dec

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